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1	Q	I	V	L	T	Q	S	P	A	I	M	S	A	S	P	G	E	K	V	T
1	D	I	Q	M	T	Q	S	P	S	T	L	S	A	S	V	G	D	R	V	T
21	I	T	C	S	A	S	S	S	I		S	Y	M	H	W	F	Q	Q	K	P
21	I	T	C	<u>R</u>	<u>A</u>	<u>S</u>	<u>Q</u>	<u>S</u>	<u>I</u>	<u>N</u>	<u>T</u>	<u>W</u>	<u>L</u>	<u>A</u>	<u>W</u>	<u>Y</u>	<u>Q</u>	<u>Q</u>	<u>K</u>	<u>P</u>
40	G	T	S	P	K	L	W	I	Y	T	T	S	N	L	A	S	G	V	P	A
41	G	K	A	P	K	L	L	<u>M</u>	<u>Y</u>	<u>K</u>	<u>A</u>	<u>S</u>	<u>S</u>	<u>L</u>	<u>E</u>	<u>S</u>	G	V	P	<u>S</u>
60	R	F	S	G	S	G	S	G	T	S	Y	S	L	T	I	S	R	M	E	A
61	R	F	<u>I</u>	G	S	G	S	G	T	E	F	T	L	T	I	S	S	L	Q	P
80	E	D	A	A	T	Y	Y	C	H	Q	R	S	T	Y	P	L	T	F	G	S
81	D	D	F	A	T	Y	Y	C	<u>Q</u>	<u>Q</u>	<u>Y</u>	<u>N</u>	<u>S</u>	<u>D</u>	<u>S</u>	<u>K</u>	<u>M</u>	<u>F</u>	<u>G</u>	<u>Q</u>
100	G	T	K	L	E	L	K													
101	G	T	K	V	E	V	K													

FIGURE 1A

1	Q	V	Q	L	Q	Q	S	G	A	E	L	A	K	P	G	A	S	V	K	M
1	Q	V	Q	L	V	Q	S	G	A	E	V	K	K	P	G	S	S	V	K	V
21	S	C	K	A	S	G	Y	T	F	T	S	Y	R	M	H	W	V	K	Q	R
21	S	C	K	A	S	G	<u>G</u>	<u>T</u>	<u>F</u>	<u>S</u>	<u>R</u>	<u>S</u>	<u>A</u>	<u>I</u>	<u>I</u>	<u>W</u>	<u>V</u>	<u>R</u>	<u>Q</u>	<u>A</u>
41	P	G	Q	G	L	E	W	I	G	Y	I	N	P	S	T	G	Y	T	E	Y
41	P	G	Q	G	L	E	W	<u>M</u>	<u>G</u>	<u>G</u>	<u>I</u>	<u>V</u>	<u>P</u>	<u>M</u>	<u>F</u>	<u>G</u>	<u>P</u>	<u>P</u>	<u>N</u>	<u>Y</u>
61	N	Q	K	F	K	D	K	A	T	L	T	A	D	K	S	S	S	T	A	Y
61	<u>A</u>	<u>Q</u>	<u>K</u>	<u>F</u>	<u>Q</u>	<u>G</u>	<u>R</u>	<u>V</u>	<u>T</u>	<u>I</u>	<u>T</u>	<u>A</u>	<u>D</u>	<u>E</u>	<u>S</u>	<u>T</u>	<u>N</u>	<u>T</u>	<u>A</u>	<u>Y</u>
81	M	Q	L	S	S	L	T	F	E	D	S	A	V	Y	Y	C	A	R	G	
81	M	E	L	S	S	L	R	S	E	D	T	A	<u>F</u>	<u>Y</u>	<u>F</u>	<u>C</u>	<u>A</u>	<u>G</u>	<u>G</u>	<u>Y</u>
100	G	G	V	F	D	Y	W	G	Q	G	T	T	L	T	V	S	S			
101	<u>G</u>	<u>I</u>	<u>Y</u>	<u>S</u>	<u>P</u>	<u>E</u>	<u>E</u>	<u>Y</u>	<u>N</u>	G	<u>G</u>	L	V	T	V	S	S			

FIGURE 1B

1	D	I	V	L	T	Q	S	P	A	S	L	A	V	S	L	G	Q	R	A	T
1	E	I	V	M	T	Q	S	P	<u>A</u>	T	L	S	V	S	P	G	E	R	A	T
21	I	S	C	R	A	S	Q	S	V	S	T	S	T	Y	N	Y	M	H	W	Y
21	L	S	C	R	A	S	Q	S	V	S	T	S	T	Y	N	Y	M	H	W	Y
41	Q	Q	K	P	G	Q	P	P	K	L	L	I	K	Y	A	S	N	L	E	S
41	Q	Q	K	P	<u>G</u>	<u>Q</u>	S	P	R	L	L	I	<u>K</u>	<u>Y</u>	<u>A</u>	<u>S</u>	<u>N</u>	<u>L</u>	<u>E</u>	<u>S</u>
61	G	V	P	A	R	F	S	G	S	G	F	G	T	D	F	T	L	N	I	H
61	G	I	P	A	R	F	S	G	S	G	S	G	T	E	F	T	L	T	I	S
81	P	V	E	E	E	D	T	V	T	Y	Y	C	Q	H	S	W	E	I	P	Y
81	<u>R</u>	<u>L</u>	<u>E</u>	S	E	D	F	A	V	Y	Y	C	<u>Q</u>	<u>H</u>	<u>S</u>	<u>W</u>	<u>E</u>	<u>I</u>	<u>P</u>	<u>Y</u>
101	T	F	G	G	G	T	K	L	E	I	K									
101	T	F	G	Q	G	T	R	V	E	I	K									

FIGURE 2A

1	E	M	I	L	V	E	S	G	G	G	L	V	K	P	G	A	S	L	K	L
1	E	V	Q	L	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L
21	S	C	A	A	S	G	F	T	F	S	N	Y	G	L	S	W	V	R	Q	T
21	S	C	A	A	S	G	F	T	F	S	<u>N</u>	<u>Y</u>	<u>G</u>	<u>L</u>	<u>S</u>	<u>W</u>	<u>V</u>	<u>R</u>	<u>Q</u>	<u>A</u>
41	S	D	R	R	L	E	W	V	A	S	I	S	R	G	G	G	R	I	Y	S
41	P	G	K	G	L	E	W	V	A	<u>S</u>	<u>I</u>	<u>S</u>	<u>R</u>	<u>G</u>	<u>G</u>	<u>G</u>	<u>R</u>	<u>I</u>	<u>Y</u>	<u>S</u>
61	P	D	N	L	K	G	R	F	T	I	S	R	E	D	A	K	N	T	L	Y
61	<u>P</u>	<u>D</u>	<u>N</u>	<u>L</u>	<u>K</u>	<u>G</u>	<u>R</u>	<u>F</u>	<u>T</u>	<u>I</u>	<u>S</u>	<u>R</u>	<u>N</u>	<u>D</u>	<u>S</u>	<u>K</u>	<u>N</u>	<u>T</u>	<u>L</u>	<u>Y</u>
81	L	Q	M	S	S	L	K	S	E	D	T	A	L	Y	Y	C	L	R	E	G
81	L	<u>Q</u>	M	N	S	L	Q	A	E	D	T	A	L	Y	Y	C	<u>L</u>	<u>R</u>	<u>E</u>	<u>G</u>
101	I	Y	Y	A	D	Y	G	F	F	D	V	W	G	T	G	T	T	V	I	V
101	<u>I</u>	<u>Y</u>	<u>Y</u>	<u>A</u>	<u>D</u>	<u>Y</u>	<u>G</u>	<u>F</u>	<u>F</u>	<u>D</u>	<u>V</u>	<u>W</u>	<u>G</u>	<u>Q</u>	<u>G</u>	<u>T</u>	<u>L</u>	<u>V</u>	<u>T</u>	<u>V</u>
121	S	S																		
121	S	S																		

FIGURE 2B

1	D	I	V	M	T	Q	S	H	K	F	M	S	T	S	V	G	D	R	V	S
1	D	I	Q	M	T	Q	S	P	S	T	L	S	A	S	V	G	D	R	V	T
21	I	T	C	K	A	S	Q	D	V	G	S	A	V	V	W	H	Q	Q	K	S
21	I	T	C	<u>K</u>	<u>A</u>	<u>S</u>	<u>Q</u>	<u>D</u>	<u>V</u>	<u>G</u>	<u>S</u>	<u>A</u>	<u>V</u>	<u>V</u>	<u>W</u>	<u>H</u>	<u>Q</u>	<u>Q</u>	<u>K</u>	<u>P</u>
41	G	Q	S	P	K	L	L	I	Y	W	A	S	T	R	H	T	G	V	P	D
41	G	K	A	P	<u>K</u>	<u>L</u>	<u>L</u>	<u>I</u>	<u>Y</u>	<u>W</u>	<u>A</u>	<u>S</u>	<u>T</u>	<u>R</u>	<u>H</u>	<u>T</u>	<u>G</u>	<u>V</u>	<u>P</u>	<u>S</u>
61	R	F	T	G	S	G	S	G	T	D	F	T	L	T	I	T	N	V	Q	S
61	R	F	<u>T</u>	<u>G</u>	<u>S</u>	<u>G</u>	<u>S</u>	<u>G</u>	<u>T</u>	<u>E</u>	<u>F</u>	<u>T</u>	<u>L</u>	<u>T</u>	<u>I</u>	<u>S</u>	<u>S</u>	<u>L</u>	<u>Q</u>	<u>P</u>
81	E	D	L	A	D	Y	F	C	Q	Q	Y	S	I	F	P	L	T	F	G	A
81	D	D	F	A	T	Y	<u>F</u>	<u>C</u>	<u>Q</u>	<u>Q</u>	<u>Y</u>	<u>S</u>	<u>I</u>	<u>F</u>	<u>P</u>	<u>L</u>	<u>T</u>	<u>F</u>	<u>G</u>	<u>Q</u>
101	G	T	R	L	E	L	K													
101	G	T	K	V	E	V	K													

FIGURE 3A

1	Q	V	Q	L	Q	Q	S	D	A	E	L	V	K	P	G	A	S	V	K	I
1	Q	V	Q	L	V	Q	S	G	A	E	V	K	K	P	G	S	S	V	K	V
21	S	C	K	V	S	G	Y	T	F	T	D	H	T	I	H	W	M	K	Q	R
21	S	C	K	A	S	G	<u>Y</u>	<u>T</u>	<u>F</u>	<u>T</u>	<u>D</u>	<u>H</u>	<u>T</u>	<u>I</u>	<u>H</u>	<u>W</u>	<u>M</u>	<u>R</u>	<u>Q</u>	<u>A</u>
41	P	E	Q	G	L	E	W	F	G	Y	I	Y	P	R	D	G	H	T	R	Y
41	P	G	Q	G	L	E	<u>W</u>	<u>F</u>	<u>G</u>	<u>Y</u>	<u>I</u>	<u>Y</u>	<u>P</u>	<u>R</u>	<u>D</u>	<u>G</u>	<u>H</u>	<u>T</u>	<u>R</u>	<u>Y</u>
61	S	E	K	F	K	G	K	A	T	L	T	A	D	K	S	A	S	T	A	Y
61	<u>A</u>	<u>E</u>	<u>K</u>	<u>F</u>	<u>K</u>	<u>G</u>	<u>K</u>	<u>A</u>	<u>T</u>	<u>I</u>	<u>T</u>	<u>A</u>	<u>D</u>	<u>E</u>	<u>S</u>	<u>T</u>	<u>N</u>	<u>T</u>	<u>A</u>	<u>Y</u>
81	M	H	L	N	S	L	T	S	E	D	S	A	V	Y	F	C	A	R	G	R
81	M	E	L	S	S	L	R	S	E	D	T	A	<u>V</u>	<u>Y</u>	<u>F</u>	<u>C</u>	<u>A</u>	<u>R</u>	<u>G</u>	<u>R</u>
101	D	S	R	E	R	N	G	F	A	Y	W	G	Q	G	T	L	V	T	V	S
101	<u>D</u>	<u>S</u>	<u>R</u>	<u>E</u>	<u>R</u>	<u>N</u>	<u>G</u>	<u>F</u>	<u>A</u>	<u>Y</u>	<u>W</u>	<u>G</u>	<u>Q</u>	<u>G</u>	<u>T</u>	<u>L</u>	<u>V</u>	<u>T</u>	<u>V</u>	<u>S</u>
121	A																			
121	S																			

FIGURE 3B

1	D	I	V	L	T	Q	S	P	A	<u>S</u>	L	A	V	S	L	G	Q	R	A	T
1	D	I	Q	M	T	Q	S	P	S	<u>S</u>	L	S	A	S	V	G	D	R	V	T
21	I	S	C	R	A	S	E	S	V	D	N	Y	G	I	S	F	M	N	W	F
21	I	T	C	<u>R</u>	<u>A</u>	<u>S</u>	<u>E</u>	<u>S</u>	<u>V</u>	<u>D</u>	<u>N</u>	<u>Y</u>	<u>G</u>	<u>I</u>	<u>S</u>	<u>F</u>	<u>M</u>	<u>N</u>	<u>W</u>	<u>F</u>
41	Q	Q	K	P	G	Q	P	P	K	L	L	<u>I</u>	Y	A	A	S	N	Q	G	S
41	Q	Q	K	P	G	K	A	P	K	L	L	<u>I</u>	Y	<u>A</u>	<u>A</u>	<u>S</u>	<u>N</u>	<u>Q</u>	<u>G</u>	<u>S</u>
61	G	V	P	A	R	F	S	G	S	G	S	G	T	D	F	S	L	N	I	H
61	G	V	P	S	R	F	<u>S</u>	G	S	G	S	G	T	<u>D</u>	F	T	L	N	I	S
81	P	M	E	E	D	D	T	A	M	Y	F	C	Q	Q	S	K	E	V	P	W
81	S	L	Q	P	D	D	F	A	T	Y	Y	C	<u>Q</u>	<u>Q</u>	<u>S</u>	<u>K</u>	<u>E</u>	<u>V</u>	<u>P</u>	<u>W</u>
101	T	F	G	G	G	T	K	L	E	I	K									
101	<u>T</u>	F	G	Q	G	T	K	V	E	<u>I</u>	K									

FIGURE 4A

1	E	V	Q	L	Q	Q	S	G	P	E	L	V	K	P	G	A	S	V	K	I
1	Q	V	Q	L	V	Q	S	G	A	E	V	K	K	P	G	S	S	V	K	V
21	S	C	K	A	S	G	<u>Y</u>	T	F	T	D	Y	N	M	H	W	V	K	Q	S
21	S	C	K	A	S	G	<u>Y</u>	T	F	<u>T</u>	<u>D</u>	<u>Y</u>	<u>N</u>	<u>M</u>	<u>H</u>	W	V	R	Q	A
41	H	G	K	S	L	E	W	<u>I</u>	G	<u>Y</u>	<u>I</u>	<u>Y</u>	<u>P</u>	<u>Y</u>	<u>N</u>	<u>G</u>	<u>G</u>	<u>T</u>	<u>G</u>	<u>Y</u>
41	P	G	Q	G	L	E	W	<u>I</u>	G	<u>Y</u>	<u>I</u>	<u>Y</u>	<u>P</u>	<u>Y</u>	<u>N</u>	<u>G</u>	<u>G</u>	<u>T</u>	<u>G</u>	<u>Y</u>
61	N	Q	K	F	K	S	K	A	T	L	T	V	D	N	S	S	S	T	A	Y
61	<u>N</u>	<u>Q</u>	<u>K</u>	<u>F</u>	<u>K</u>	<u>S</u>	<u>K</u>	<u>A</u>	T	I	T	A	D	E	S	T	N	T	A	Y
81	M	D	V	R	S	L	T	S	E	D	S	A	V	Y	Y	C	A	R	G	R
81	M	E	L	S	S	L	R	S	E	D	T	A	<u>V</u>	<u>Y</u>	<u>Y</u>	C	A	<u>R</u>	<u>G</u>	<u>R</u>
101	P	A	M	D	Y	W	G	Q	G	T	S	V	T	V	S	S				
101	<u>P</u>	<u>A</u>	<u>M</u>	<u>D</u>	<u>Y</u>	<u>W</u>	<u>G</u>	<u>Q</u>	<u>G</u>	<u>T</u>	L	V	T	V	S	S				

FIGURE 4B

1	Q	I	V	L	T	Q	S	P	A	I	M	S	A	S	P	G	E	K	V	T
1	D	I	Q	M	T	Q	S	P	S	S	L	S	<u>A</u>	S	V	G	D	R	V	T
21	M	T	C	S	G	S	S	S	V	S	F	M	Y	W	Y	Q	Q	R	P	G
21	I	T	C	<u>S</u>	<u>G</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>V</u>	<u>S</u>	<u>F</u>	<u>M</u>	<u>Y</u>	W	Y	Q	Q	K	P	G
41	S	S	P	R	L	L	I	Y	D	T	S	N	L	A	S	G	V	P	V	R
41	<u>K</u>	A	P	K	L	L	I	Y	<u>D</u>	<u>T</u>	<u>S</u>	<u>N</u>	<u>L</u>	<u>A</u>	<u>S</u>	G	V	P	S	R
61	F	S	G	S	G	S	G	T	S	Y	S	L	T	I	S	R	M	E	A	E
61	F	S	G	S	G	S	G	T	D	<u>Y</u>	T	F	T	I	S	S	L	Q	P	E
81	D	A	A	T	Y	Y	C	Q	Q	W	S	T	Y	P	L	T	F	G	A	G
81	D	I	A	T	Y	Y	C	<u>Q</u>	<u>Q</u>	<u>W</u>	<u>S</u>	<u>T</u>	<u>Y</u>	<u>P</u>	<u>L</u>	<u>T</u>	F	G	Q	G
101	T	K	L	E	L	K														
101	T	K	V	E	V	K														

FIGURE 5A

1	Q	V	Q	L	K	Q	S	G	P	G	L	V	Q	P	S	Q	S	L	S	I
1	<u>E</u>	V	Q	L	L	E	S	G	G	G	L	V	Q	P	G	Q	S	L	R	L
21	T	C	T	V	S	G	F	S	V	T	S	Y	G	V	H	W	I	R	Q	S
21	S	C	A	A	S	G	F	T	<u>V</u>	<u>T</u>	<u>S</u>	<u>Y</u>	<u>G</u>	<u>V</u>	<u>H</u>	W	V	R	Q	A
41	P	G	K	G	L	E	W	L	G	V	I	W	S	G	G	S	T	D	Y	N
41	P	G	K	G	L	E	W	V	<u>G</u>	<u>V</u>	<u>I</u>	<u>W</u>	<u>S</u>	<u>G</u>	<u>G</u>	<u>S</u>	<u>T</u>	<u>D</u>	<u>Y</u>	<u>N</u>
61	A	A	F	I	S	R	L	T	I	S	K	D	N	S	K	S	Q	V	F	F
61	<u>A</u>	<u>A</u>	<u>F</u>	<u>I</u>	<u>S</u>	R	F	T	I	S	R	<u>D</u>	<u>N</u>	S	K	N	T	L	Y	L
81	K	V	N	S	L	Q	P	A	D	T	A	I	Y	Y	C	A	R	A	G	D
81	Q	M	N	<u>S</u>	L	Q	A	E	<u>D</u>	<u>T</u>	A	I	Y	Y	C	A	R	<u>A</u>	<u>G</u>	<u>D</u>
101	Y	N	Y	D	G	F	A	Y	W	G	Q	G	T	L	V	T	V	S	A	
101	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>D</u>	<u>G</u>	<u>F</u>	<u>A</u>	<u>Y</u>	W	G	Q	G	T	L	V	T	V	S	S	

FIGURE 5B

1	D	I	V	L	T	Q	S	P	A	T	L	S	V	T	P	G	D	S	V	S
1	E	I	V	L	T	Q	S	P	G	T	L	S	L	S	P	G	E	R	A	T
21	L	S	C	R	A	S	Q	S	I	S	N	N	L	H	W	Y	Q	Q	K	S
21	L	S	C	<u>R</u>	<u>A</u>	<u>S</u>	<u>Q</u>	<u>S</u>	<u>I</u>	<u>S</u>	<u>N</u>	<u>N</u>	<u>L</u>	<u>H</u>	<u>W</u>	<u>Y</u>	<u>Q</u>	<u>Q</u>	<u>K</u>	<u>P</u>
41	H	E	S	P	R	L	L	I	K	Y	A	S	Q	S	I	S	G	I	P	S
41	G	Q	A	P	R	L	L	I	<u>K</u>	<u>Y</u>	<u>A</u>	<u>S</u>	<u>Q</u>	<u>S</u>	<u>I</u>	<u>S</u>	G	I	P	D
61	R	F	S	G	S	G	S	G	T	D	F	T	L	S	V	N	G	V	E	T
61	R	F	S	G	S	G	S	G	T	D	F	T	L	T	I	S	R	L	E	P
81	E	D	F	G	M	Y	F	C	Q	Q	S	N	S	W	P	H	T	F	G	G
81	E	D	F	A	V	Y	Y	C	<u>Q</u>	<u>Q</u>	<u>S</u>	<u>N</u>	<u>S</u>	<u>W</u>	<u>P</u>	<u>H</u>	<u>T</u>	<u>F</u>	<u>G</u>	<u>Q</u>
101	G	T	K	L	E	I	K													
101	G	T	K	V	E	I	K													

FIGURE 6A

1	E	V	Q	L	<u>Q</u>	<u>Q</u>	S	G	P	E	L	V	K	P	G	A	S	M	K	I
1	Q	V	Q	L	<u><u>V</u></u>	<u>Q</u>	S	G	A	E	V	K	K	P	G	S	S	V	R	V
21	S	C	K	A	S	V	Y	S	F	T	G	Y	T	M	N	W	V	K	Q	S
21	S	C	K	<u>A</u>	<u>S</u>	G	<u>Y</u>	<u>S</u>	<u>F</u>	<u>T</u>	<u>G</u>	<u>Y</u>	<u>T</u>	<u>M</u>	<u>N</u>	<u>W</u>	<u>V</u>	<u>R</u>	<u>Q</u>	<u>A</u>
41	H	G	Q	N	L	E	W	I	G	L	I	N	P	Y	N	G	G	T	S	Y
41	P	G	K	G	L	E	W	V	G	<u>L</u>	<u>I</u>	<u>N</u>	<u>P</u>	<u>Y</u>	<u>N</u>	<u>G</u>	<u>G</u>	<u>T</u>	<u>S</u>	<u>Y</u>
61	N	Q	K	F	K	G	K	A	T	L	T	V	D	K	S	S	N	T	A	Y
61	<u>N</u>	<u>Q</u>	<u>K</u>	<u>F</u>	<u>K</u>	<u>G</u>	<u>R</u>	<u>V</u>	<u>T</u>	<u>V</u>	<u>S</u>	<u>L</u>	<u>K</u>	<u>P</u>	<u>S</u>	<u>F</u>	<u>N</u>	<u>Q</u>	<u>A</u>	<u>Y</u>
81	M	E	L	L	S	L	T	S	A	D	S	A	V	Y	Y	C	T	R	R	G
81	M	E	L	S	S	L	F	S	E	D	T	A	V	Y	Y	C	<u>T</u>	<u>R</u>	<u>R</u>	<u>G</u>
101	F	R	D	Y	S	M	D	Y	W	G	Q	G	T	S	V	T	V	S	S	
101	<u>F</u>	<u>R</u>	<u>D</u>	<u>Y</u>	<u>S</u>	<u>M</u>	<u>D</u>	<u>Y</u>	<u>W</u>	<u>G</u>	<u>Q</u>	<u>G</u>	<u>T</u>	<u>L</u>	<u>V</u>	<u>T</u>	<u>V</u>	<u>S</u>	<u>S</u>	

FIGURE 6B

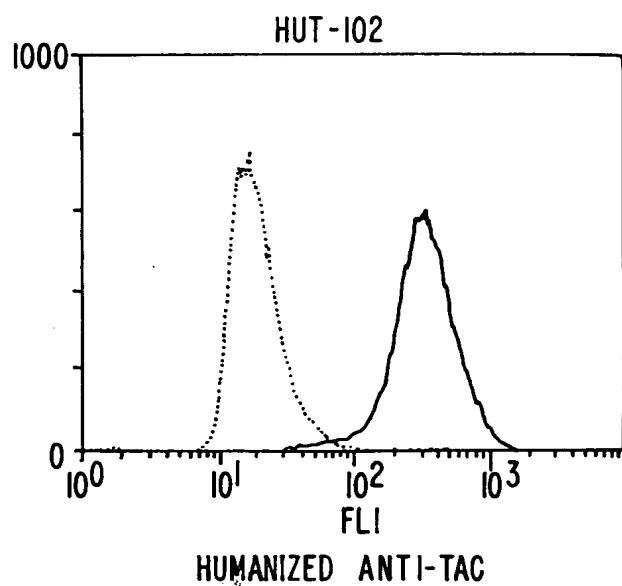


FIGURE 7A

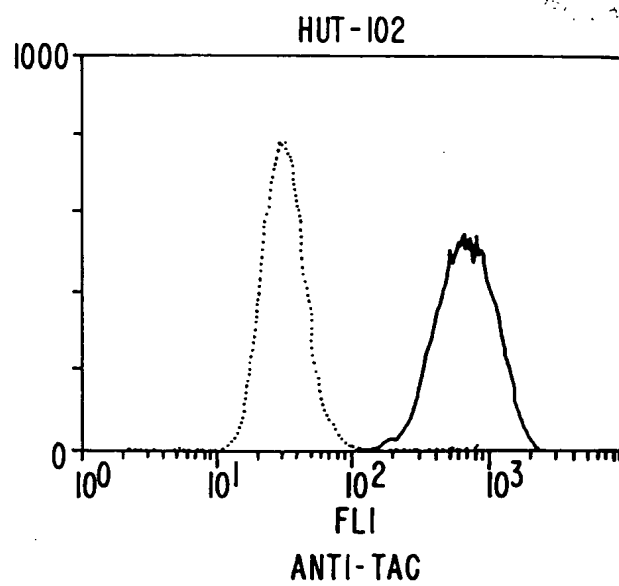


FIGURE 7B

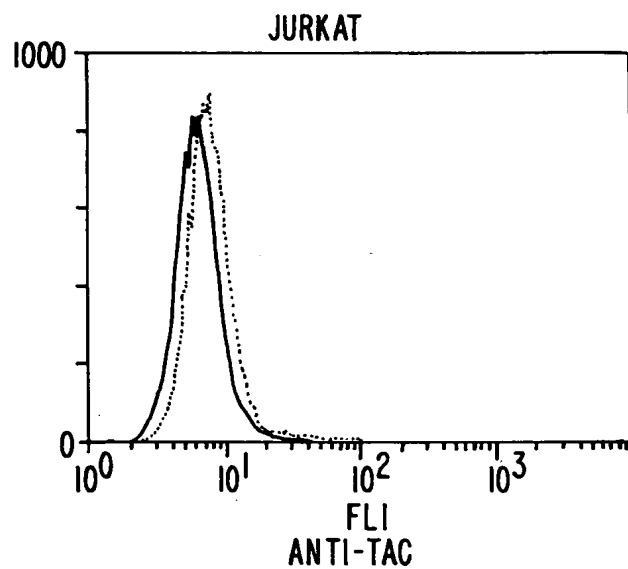


FIGURE 7C

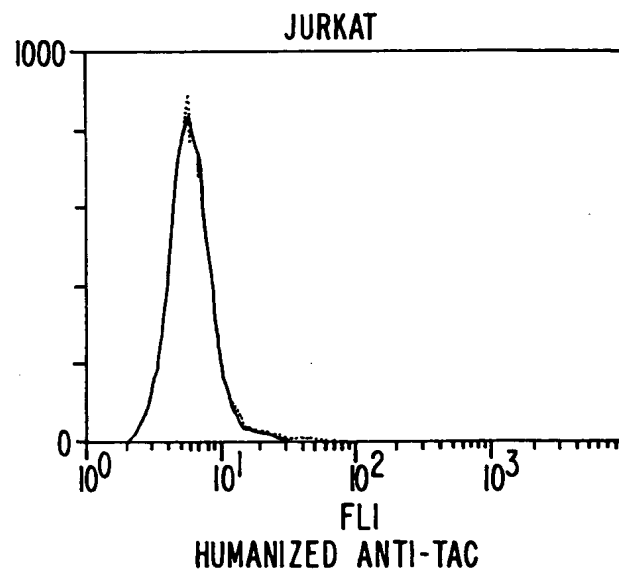


FIGURE 7D

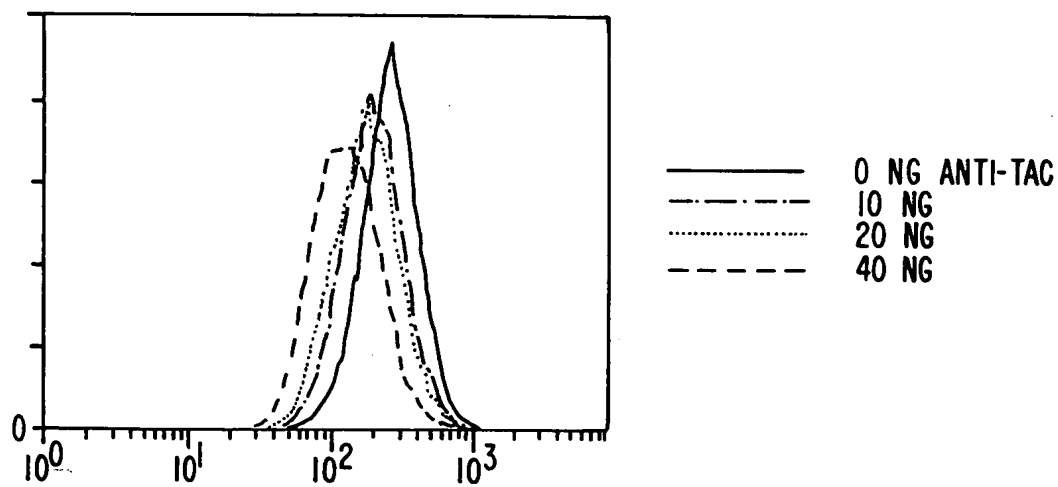


FIGURE 8A

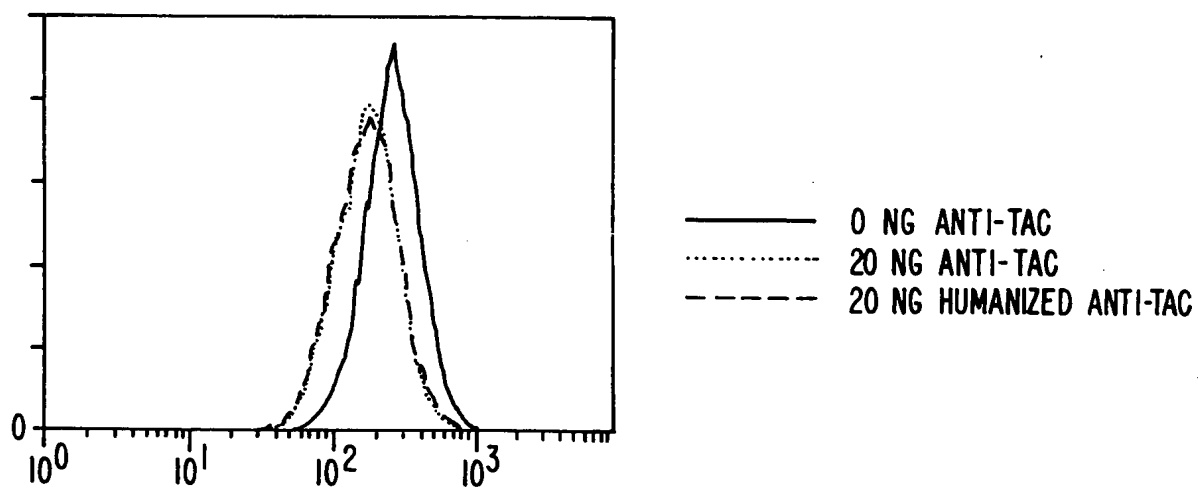


FIGURE 8B

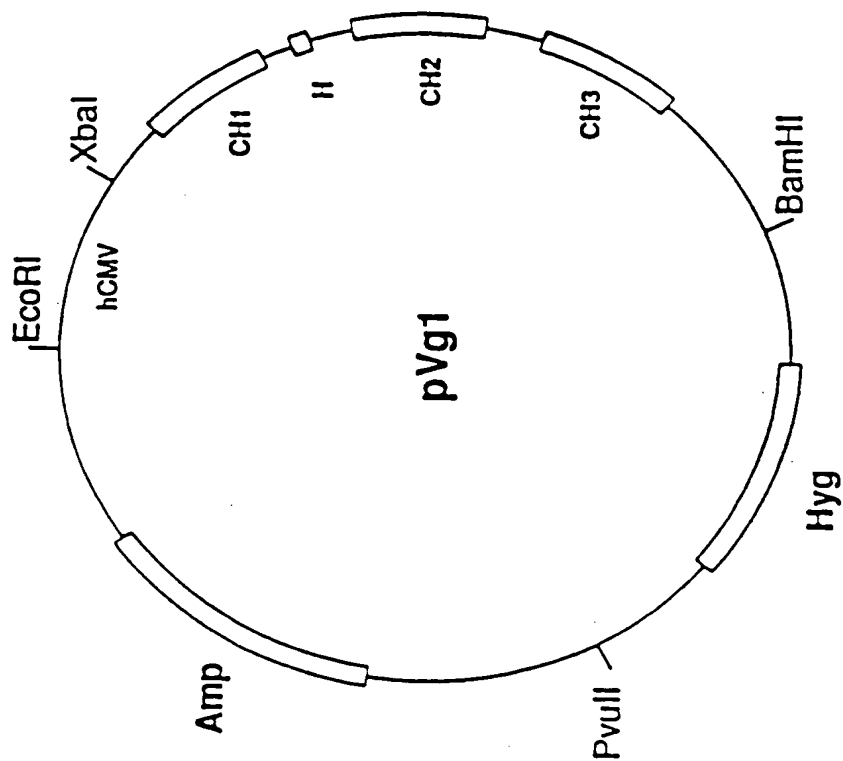


FIGURE 9A

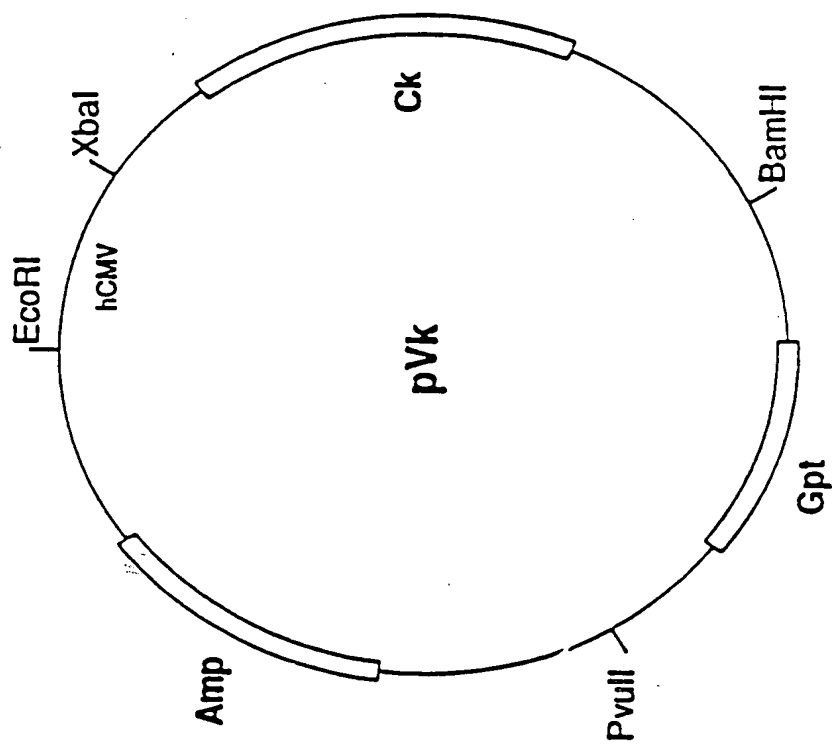


FIGURE 9B

FIGURE 10A

D	I	Q	M	T	Q	S	P	S	T	L	S	A	S	V	G	D	R	V	T
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
D	I	Q	M	T	Q	S	P	S	T	L	S	A	S	V	G	D	R	V	T
I	T	C	S	A	S	S	S	S	I	S	M	H	W	Y	Q	Q	K	P	C
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
I	T	C	S	A	S	S	S	S	I	S	M	H	W	Y	Q	Q	K	P	C
K	A	P	K	L	L	I	Y	T	T	S	N	L	A	S	G	V	P	A	R
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
K	A	P	K	L	L	I	Y	T	T	S	N	L	A	S	G	V	P	A	R
F	S	G	S	G	S	G	T	E	F	T	L	T	I	S	S	L	Q	P	D
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
F	S	G	S	G	S	G	T	E	F	T	L	T	I	S	S	L	Q	P	D
D	F	A	T	Y	Y	C	H	Q	R	S	T	Y	P	L	T	F	G	Q	C
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
D	F	A	T	Y	Y	C	H	Q	R	S	T	Y	P	L	T	F	G	Q	C
T	K	V	E	V	K														
:	:	:	:	:	:														
T	K	V	E	V	K														

FIGURE 10B

10	20	30	40	50	60	70
AGCTTCTAGA	TGGGATGGAG	CTGGATCTTT	CTCTTCTCTCC	TGTCAGGTAC	CGGGGGCGTG	CACTCTCAGG
TCGAAGATCT	ACCTACCTC	GACCTAGAAA	GAGAAGGAGG	ACAGTCCATG	CGCCCCGCAC	GTGAAGATCC
80	90	100	110	120	130	140
TCCAGCTTGT	CCAGTCTGGG	GCTGAAGTCA	AGAAACCTGG	CTCGAGCGTG	AAGGTCTCCT	GCAAGGCTTC
AGGTCGAACA	GGTCAGACCC	CGACTTCAGT	TCTTTGGACC	GAGCTGGCAC	TTCCAGAGGA	CGTTCCGAAG
150	160	170	180	190	200	210
TGGCGGGACC	TTTTCTAGCT	ACAGGATGCA	CTGGGTAAAG	CAGGCCCTTG	GACAGGGTCT	GGAATGGATG
ACCGCCCTGG	AAAAGATCGA	TGTCCTACGT	GACCCATTCC	GTCCGGGGAC	CTGTCCGAGA	CCTTACCTAC
220	230	240	250	260	270	280
GGATATATTA	ATCCGTCGAC	TGGGTATACT	GAATACAATC	AGAAATTCAA	GGACAGGGTC	ACAAATTACTG
CCTATATAAT	TAGGCAGCTG	ACCCATATGA	CTTATGTTAG	TCTTCAAGTT	CCTGTCCCAG	TGTTAATGAC
290	300	310	320	330	340	350
CAGACGAATC	CACCAATACA	GCCTACATGG	AAC TGAGCAG	CCTGAGATCT	GAGGACACCG	CATTCTATTT
GTCTGCTTAG	GTGGTTATGT	CGGATGTACC	TTCACTCGTC	GGACTCTAGA	CTCCTGTGGC	GTAAGATAAA
360	370	380	390	400	410	420
CTGTGCAGGG	GGTGGGGGAG	TCTTTGACTA	CGAATACAAT	GGAGGGCTGG	TCACAGTCTC	CTCAGGTGAG
GACACGTCCC	CCACCCCCCTC	AGAAACTGAT	GCATTATGTTA	CCTCCCGACC	AGTGTGAGAG	GAOTCCACTC
430	440					
TCCTTAAAC	CTCTAGACGA	TAT				
AGGAATTTTG	GAGATCTGCT	ATA				

FIGURE 11A

10 20 30 40 50 60 70
CAATCTAGA TGGAGACCGA TACCCTCCTG CTATGGGTCC TCCTGCTATG GGTCCCAGGA TCAACCGGAG
GTTTAGATCT ACCTCTGGCT ATGGGAGGAC GATACCCAGG AGGACGATAC CCAGGGTCCT AGTTGGCCTC
 80 90 100 110 120 130 140
ATATTGAGAT GACCCAGTCT CCATCTACCC TCTCTGCTAG GGTGCGGGAT AGGGTCACCA TAACCTGCTC
TATAAGTCTA CTGGGTGAGA GGTAGATGGG AGAGACGATC GCAGCCCTTA TCCAGTGCT ATTGGACGAG
 150 160 170 180 190 200 210
TGCCAGCTCA AGTATAAGTT ACATGCACTG GTACCAGCAG AAGCCAGGCA AAGCTCCCA GCTTCTAATG
ACGGTCCAGT TCATATTCAA TGTACGTGAC CATGGTCTC TTCGGTCCGT TTCGAGGGTT CGAAGATTAC
 220 230 240 250 260 270 280
TATACCAGAT CCAACCTGGC TTCTGGAGTC CTTCTCTCGT TCATTGGCAG TGGATCTGGG ACCGAGTTCA
ATATGGTCTA GGTGGACCG AAGACCTCAG GGAAGAGCGA AGTAACCGTC ACCTAGACCC TGGCTCAAGT
 290 300 310 320 330 340 350
CCCTCACAAT CAGCTCTCTG CAGCCAGATG ATTTGCCCAC TTATTACTGC CATCAAAGGA GTACTTACCC
GGGAGTGTTA GTCGAGAGAC GTCGGTCTAC TAAAGCGTG AATAATGACG GTAGTTTCCT CATGAATGGG
 360 370 380 390 400
ACTCAGTTC GGTGAGGGA CCAAGGTGGA GGTCAAACGT AAGTACACTT TTCTAGATAT A
TGAGTGCAAG CCAGTCCCCT GGTCCACCT CCAGTTTCCA TTCAATGTGA AAGATCTATA T

FIGURE 11B

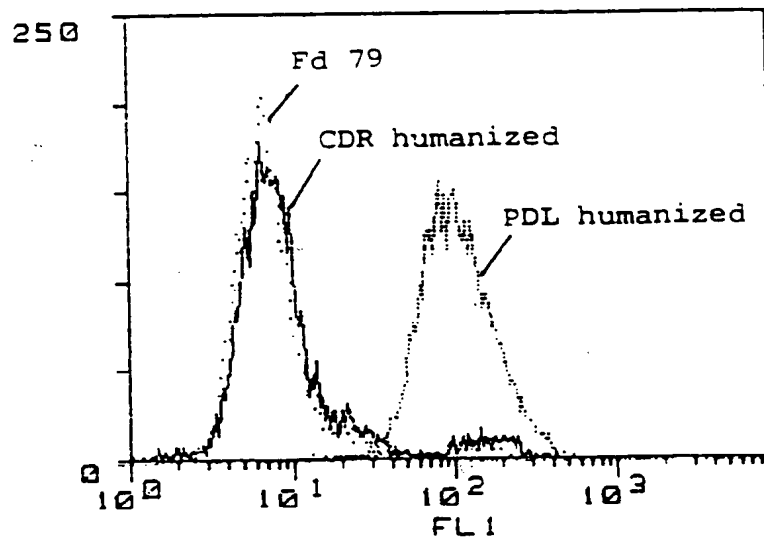


FIGURE 12

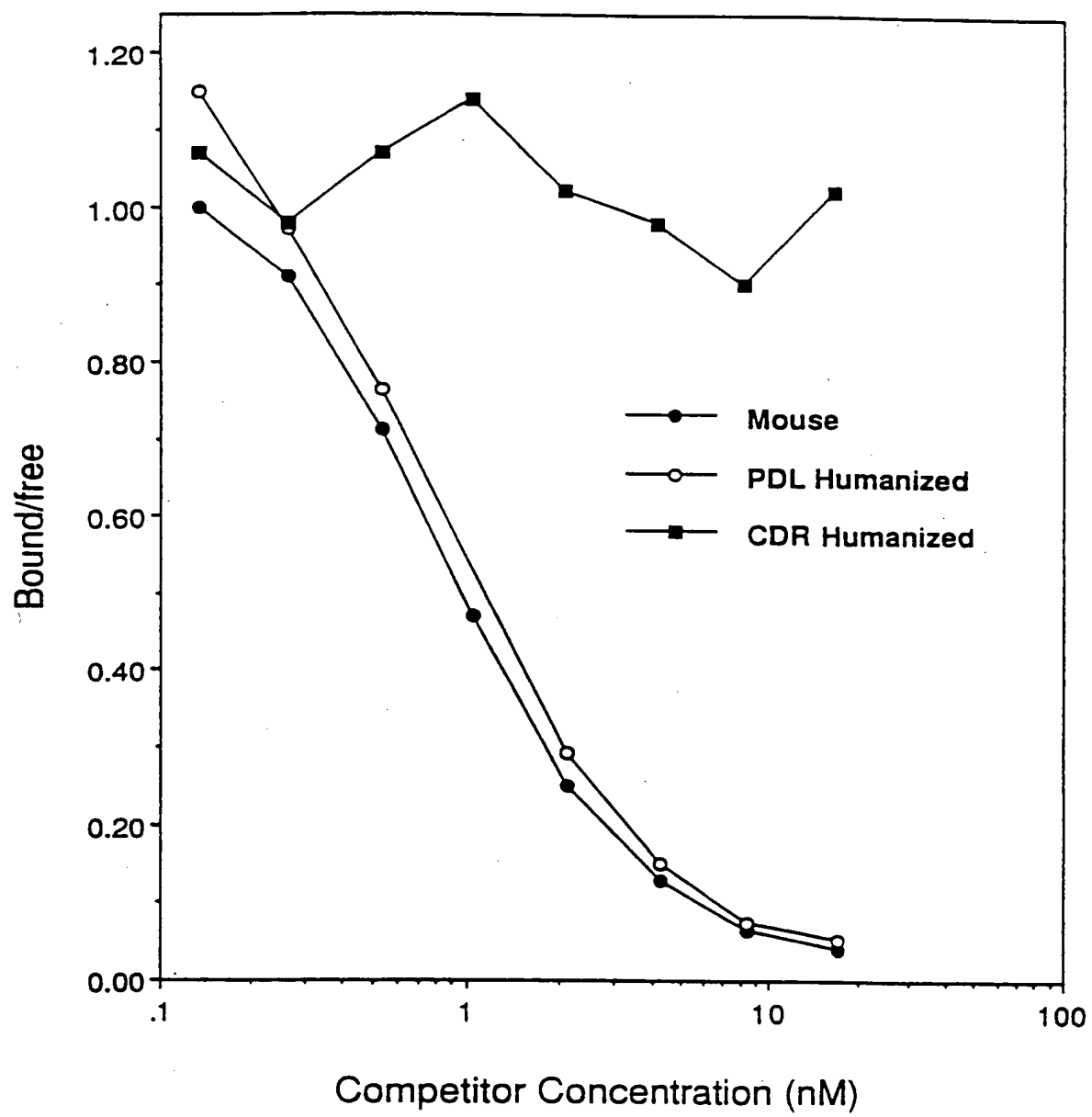


FIGURE 13

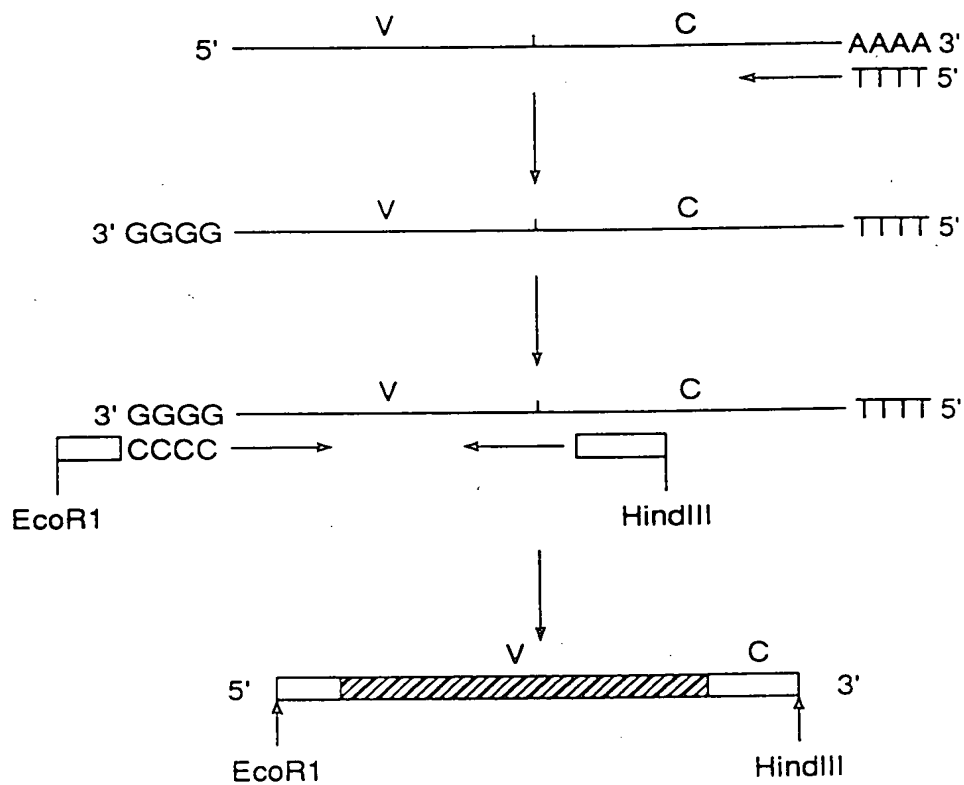


FIGURE 14

1	Q	V	Q	L	Q	S	G	A	E	L	A	K	P	G	A	S	V	K	M
1	Q	V	Q	L	Q	S	G	A	E	L	A	K	P	G	A	S	V	K	M
21	S	C	K	A	S	G	Y	T	F	T	S	Y	R	M	H	V	K	Q	R
21	S	C	K	A	S	G	Y	T	F	T	S	Y	R	M	H	V	K	Q	R
41	P	G	Q	G	L	E	W	I	G	Y	I	N	P	S	T	G	Y	T	E
41	P	G	Q	G	L	E	W	I	G	Y	I	N	P	S	T	G	Y	T	E
61	N	Q	K	F	K	D	K	A	T	L	T	A	D	K	S	S	T	A	Y
61	A	Q	K	F	K	D	K	A	T	L	T	A	D	K	S	S	T	A	Y
81	M	Q	L	S	S	L	T	F	E	D	S	A	V	Y	Y	C	A	R	G
81	M	Q	L	S	S	L	T	F	E	D	S	A	V	Y	Y	C	A	R	G
100	G	G	V	F	D	Y	W	G	Q	G	T	T	L	T	V	S	S	S	S
101	G	G	V	F	D	Y	W	G	Q	G	T	T	L	T	V	S	S	S	S

FIGURE 15

1	Q	I	V	L	T	Q	S	P	A	I	M	S	A	S	P	G	E	K	V	T
1	D	I	Q	M	T	Q	S	P	S	T	L	S	A	S	V	G	D	R	V	T
21	I	T	C	S	A	S	S	S	I	S	S	Y	M	H	W	F	Q	Q	K	P
21	I	T	C	R	A	S	Q	S	I	N	T	W	L	A	W	Y	Q	Q	K	P
40	G	T	S	P	K	L	W	I	Y	T	T	S	N	L	A	S	G	V	P	A
41	I	K	A	P	K	L	L	M	Y	K	A	S	S	L	E	S	G	V	P	S
60	R	F	S	G	S	G	S	G	T	S	Y	S	L	T	I	S	R	M	E	A
61	R	F	I	G	S	G	S	G	T	E	F	T	L	T	I	S	S	L	Q	P
80	E	D	A	A	T	Y	Y	C	H	Q	R	S	T	Y	P	L	T	F	G	S
81	D	D	F	A	T	Y	Y	C	Q	Q	Y	N	S	D	S	K	M	F	G	Q
100	G	T	K	L	E	L	K													
101	G	T	K	V	E	V	K													

FIGURE 16

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      10      20      30      40      50      60
TCTAGATGGGATGGAGCTGGATCTTTCTCTTCCTCCTGTCAGGTACCGCGGGCGTGCACT
  M  G  W  S  W  I  F  L  F  L  L  S  G  T  A  G  V  H

      70      80      90     100     110     120
CTCAGGTCCAGCTTGTCCAGTCTGGGGCTGAAGTCAAGAAACCTGGCTCGAGCGTGAAGG
S  Q  V  Q  L  V  Q  S  G  A  E  V  K  K  P  G  S  S  V  K

     130     140     150     160     170     180
TCTCCTGCAAGGCTTCTGGCTACACCTTTACTAGCTACAGGATGCACTGGGTAAGGCAGG
V  S  C  K  A  S  G  Y  T  F  T  S  Y  R  M  H  W  V  R  Q

     190     200     210     220     230     240
CCCCTGGACAGGGTCTGGAATGGATTGGATATATTAATCCGTGCACTGGGTATACTGAAT
A  P  G  Q  G  L  E  W  I  G  Y  I  N  P  S  T  G  Y  T  E

     250     260     270     280     290     300
ACAATCAGAAAGTTCAAGGACAAGGCAACAATTACTGCAGACGAATCCACCAATACAGCCT
Y  N  Q  K  F  K  D  K  A  T  I  T  A  D  E  S  T  N  T  A

     310     320     330     340     350     360
ACATGGAAGTGAAGCAGCCTGAGATCTGAGGACACCGCAGTCTATTACTGTGCAAGAGGGG
Y  M  E  L  S  S  L  R  S  E  D  T  A  V  Y  Y  C  A  R  G

     370     380     390     400     410     420
GGGGGGTCTTTGACTACTGGGGCCAAGGAACCCTGGTCACAGTCTCCTCAGGTGAGTCCT
G  G  V  F  D  Y  W  G  Q  G  T  L  V  T  V  S  S

     430
TAAACCTCTAGA

```

FIGURE 17

20

10 20 30 40 50 60
 TCTAGATGGAGACCGATACCTCCTGCTATGGGTCCTCCTGCTATGGGTCCCAGGATCAA
 M E T D T L L L W V L L L W V P G S

70 80 90 100 110 120
 CCGGAGATATTCAGATGACCCAGTCTCCATCTACCTCTCTGCTAGCGTCGGGGATAGGG
 T G D I Q M T Q S P S T L S A S V G D R

130 140 150 160 170 180
 TCACCATAACCTGCTCTGCCAGCTCAAGTATAAGTTACATGCACTGGTACCAGCAGAAGC
 V T I T C S A S S S I S Y M H W Y Q Q K

190 200 210 220 230 240
 CAGGCAAAGCTCCCAAGCTTCTAATTTATACCACATCCAACCTGGCTTCTGGAGTCCCTG
 P G K A P K L L I Y T T S N L A S G V P

250 260 270 280 290 300
 CTCGCTTCAGTGGCAGTGGATCTGGGACCGAGTTCACCTCACAATCAGCTCTCTGCAGC
 A R F S G S G S G T E F T L T I S S L Q

310 320 330 340 350 360
 CAGATGATTTGCGCACTTATTACTGCCATCAAAGGAGTACTTACCCACTCACGTTCCGCTC
 P D D F A T Y Y C H Q R S T Y P L T F G

370 380 390 400
 AGGGGACCAAGGTGGAGGTCAAACGTAAGTACACTTTTCTAGA
 Q G T K V E V K

FIGURE 18

HES12 AGCTTCTAGATGGGATGGAGCTGGATCTTTCTCTTCCCTCCTGTCAGGTTACCGCGGGCGTG
CAGTCTCAGGTCAGCTTGTCCAGTCTGGGGCTGAAGTCAAGAAACCTGGCTCGAGCGTG
AAGGTC

HES13 CCCAGTCGACGGATTAAATATATCCAAATCCATTCCAGACCCCTGTCCAGGGGCTGCCCTTAG
CCAGTGCAATCCTGTAGCTAGTAAGGTGTAGCCAGAAGCCTTGCAGGAGACCTTCACGCT
CGAGCCAGG

HES14 TATATTAATCCGTCGACTGGGTATCTGAATACAAATCAGAAGTTCAAGGACAAGGCAACA
ATTACTGCAGACGGAATCCACCAATACAGCCCTACATGGAAGCTGAGCAGCCTGAGATCTGAG
GACA

HES15 ATATCGTCTAGAGGTTTTAAGGACTCACCTGAGGAGACTGTGACCAGGGTTCCCTGGCCCC
CAGTAGTCAAAGACCCGCCCTCTTGCACAGTAATAGACTGCGGTGTCCCTCAGATCTC
AGGCTGCT

FIGURE 19A

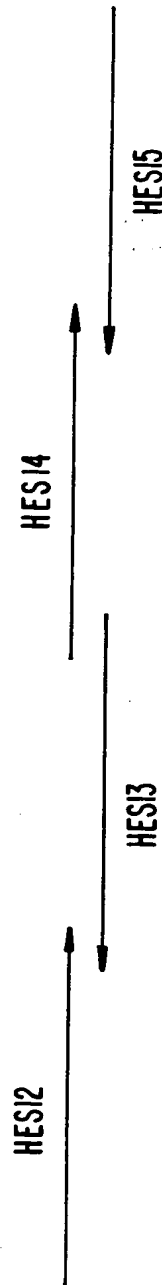


FIGURE 19B

JFD1 CAAATCTAGATGGAGACGGATACCGCTCGTCTATGCGTCTGCTATGCGTCTGCTAGCGTGGGGGAT
TCAACCGGAGATATTCAGATGACCCAGTCTCCATCTACCGCTCTCTGCTAGCGTGGGGGAT

JFD2 ATAAATTAGAAAGCTTGGGAGCTTGGCTGGCTTCTGGCTGGTACCAAGTGCATGTAACCTTAT
ACTTGAGCTGGCAGAGCAGGTTATGCTGACCCCTATCCCGACCGCTAGCAGAGAG

JFD3 GCTCGCAAGCTTCTAATTTATACCACATCCAACCTGGCTTCTGGAGTCCCTGCTCGCTTC
AGTGGCAGTGGATCTGGGACCGAGTTCACCGCTCACAATCAGCTCTCTGCAGCCAGATGAT
TTC

JFD4 TATACTAGAAAGTGTACTTACGTTTGACCTCCACCTTGGTCCCGCTGACCGAAGCTGAG
TGGGTAAGTACTCGCTTTGATGGCAGTAATAAGTGGGAAATCATCTGCTGCAGAGAGCT
GA

FIGURE 20A

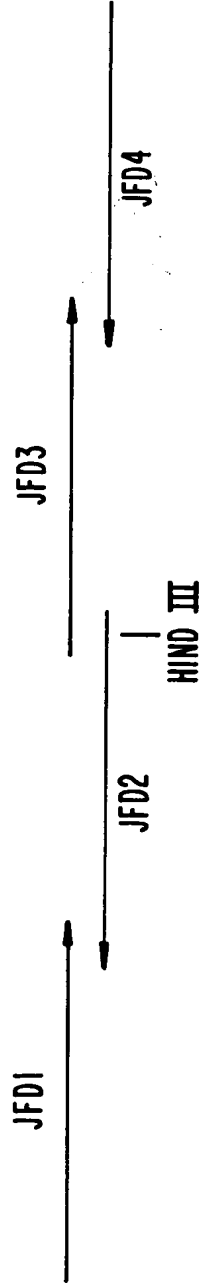


FIGURE 20B

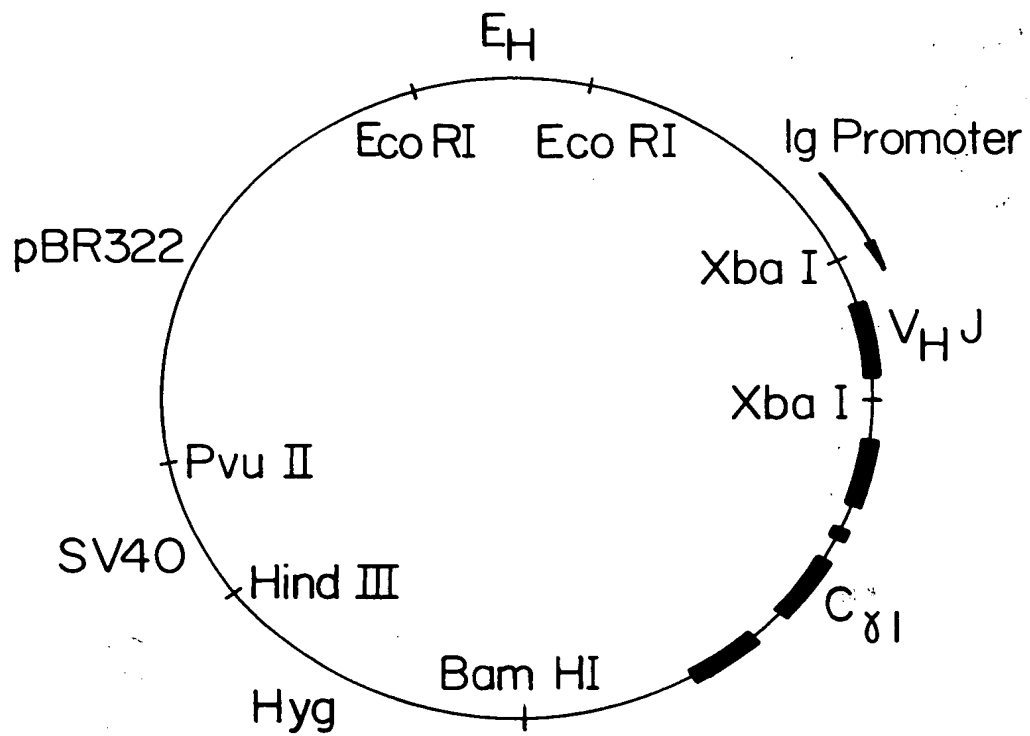


FIGURE 21

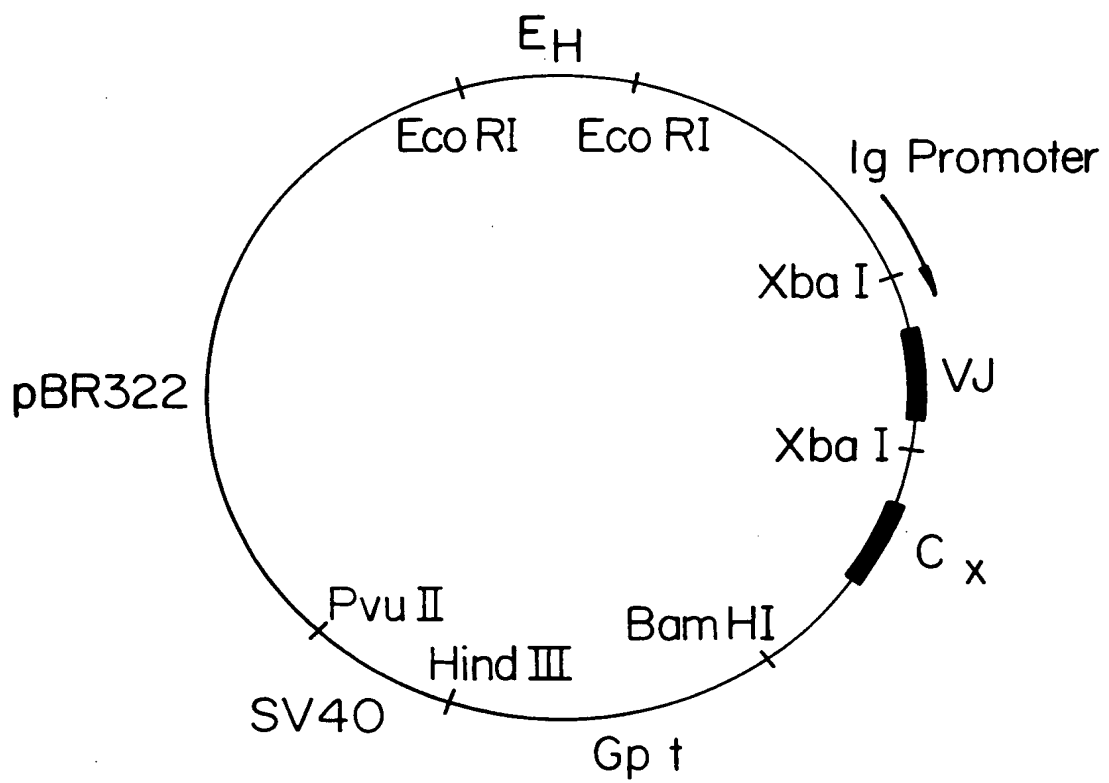


FIGURE 22

30 60
 ATGGATTTTCAAGTGCAGATTTTCAGCTTCCTGCTAATCAGTGCCTCAGTCATACTGTCC
 M D F Q V Q I F S F L L I S A S V I L S
 90 120
 AGAGGACAAATTGTTCTCACCCAGTCTCCAGCAATCATGTCTGCGTCTCCAGGGGGGAAG
 R G Q I V L T Q S P A I M S A S P G E K
 150 180
 GTCACCATGACCTGCAGTGGCAGCTCAAGTGTAAGTTTCATGTACTGGTACCAGCAGAGG
 V T M T C S G S S S V S F M Y W Y Q Q R
 210 240
 CCAGGATCCTCCCCAGACTCCTGATTTATGACACATCCAACCTGGCTTCTGGAGTCCCT
 P G S S P R L L I Y D T S N L A S G V P
 270 300
 GTTCGCTTCAGTGGCAGTGGGTCTGGGACCTCTTACTCTCTCACAATCAGCCGAATGGAG
 V R F S G S G S G T S Y S L T I S R M E
 330 360
 GCTGAAGATGCTGCCACTTATTACTGCCAGCAGTGGAGTACTTACCCGCTCACGTTCCGT
 A E D A A T Y Y C Q Q W S T Y P L T F G
 GCTGGGACCAAGCTGGAGCTGAAA
 A G T K L E L K

FIGURE 23A

30 60
 ATGGCTGTCTTGGGGCTGCTCTTCTGCCTGGTGACATTCCCAAGCTGTGTCTCTATCCCAG
 M A V L G L L F C L V T F P S C V L S Q
 90 120
 GTGCAGCTGAAGCAGTCAGGACCTGGCCTAGTGCAGCCCTCACAGAGCCTGTCCATCACC
 V Q L K Q S G P G L V Q P S Q S L S I T
 150 180
 TGCACAGTCTCTGGTTTCTCAGTAACAAGTTATGGTGTACACTGGATTGCGCCAGTCTCCA
 C T V S G F S V T S Y G V H W I R Q S P
 210 240
 GGAAAGGGTCTGGAGTGGCTGGGAGTGATATGGAGTGGTGGGAAGCACAGACTATAATGCA
 G K G L E W L G V I W S G G S T D Y N A
 270 300
 GCTTTCATATCCAGACTGACCATCAGCAAGGACAACCTCCAAGAGCCAAGTTTCTTTAAA
A F I S R L T I S K D N S K S Q V F F K
 330 360
 GTGAACAGTCTGCAACCTGCTGACACAGCCATATACTATTGTGCCAGAGCTGGGGACTAT
 V N S L Q P A D T A I Y Y C A R A G D Y
 390
 AATTACGACGGTTTTGCTTACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCG
N Y D G F A Y W G Q G T L V T V S A

FIGURE 23B

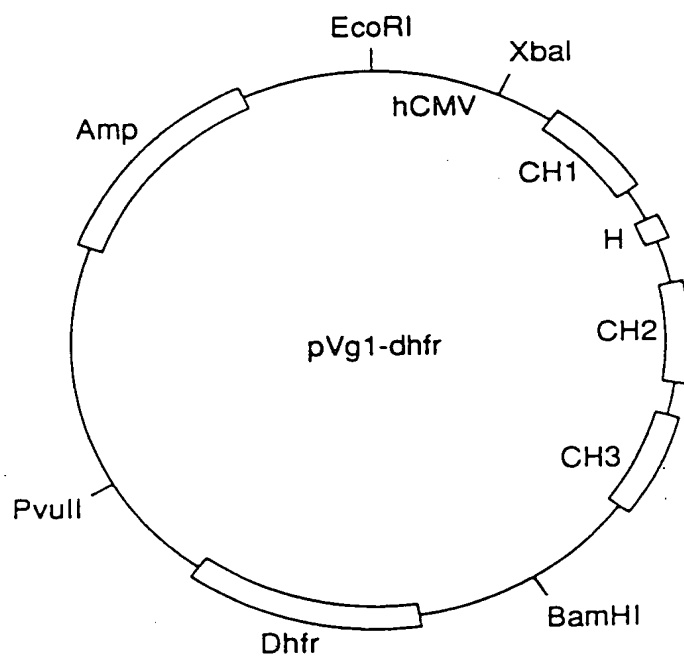


FIGURE 24A

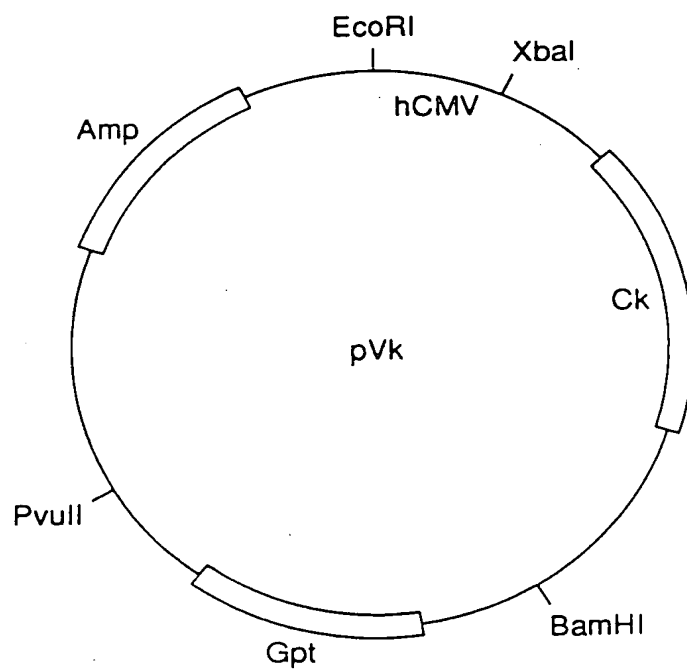


FIGURE 24B

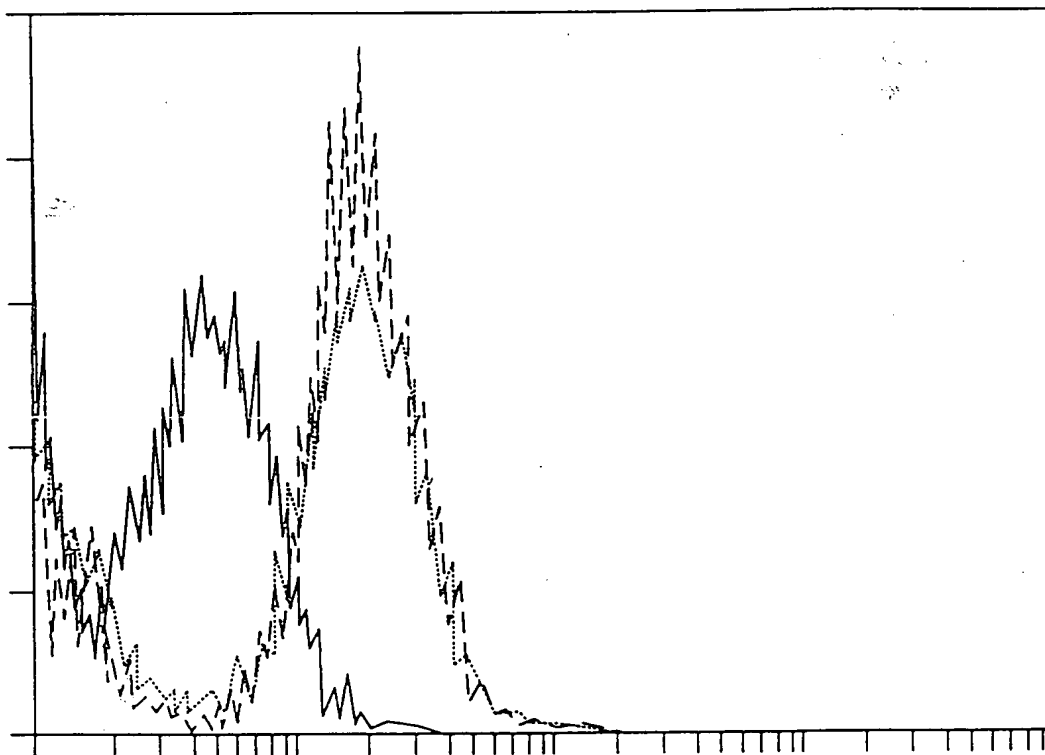


FIGURE 25

1	D	I	Q	M	T	Q	S	P	S	S	L	S	V	S	V	G	D	R	V	T
1	D	I	Q	M	T	Q	S	P	S	S	L	S	<u>A</u>	S	V	G	D	R	V	T
21	I	T	C	Q	A	S	Q	N	V	N	A	Y	L	N	W	Y	Q	Q	K	P
21	I	T	C	<u>S</u>	<u>G</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>V</u>		<u>S</u>	<u>F</u>	<u>M</u>	<u>Y</u>	<u>W</u>	<u>Y</u>	<u>Q</u>	<u>Q</u>	<u>K</u>	<u>P</u>
41	G	L	A	P	K	L	L	I	Y	G	A	S	T	R	E	A	G	V	P	S
40	G	<u>K</u>	A	P	K	L	L	I	Y	<u>D</u>	<u>T</u>	<u>S</u>	<u>N</u>	<u>L</u>	<u>A</u>	<u>S</u>	G	V	P	S
61	R	F	S	G	S	G	S	G	T	D	F	T	F	T	I	S	S	L	Q	P
60	R	F	S	G	S	G	S	G	T	D	<u>Y</u>	T	F	T	I	S	S	L	Q	P
81	E	D	I	A	T	Y	Y	C	Q	Q	Y	N	N	W	P	P	T	F	G	Q
80	E	D	I	A	T	Y	Y	C	<u>Q</u>	<u>Q</u>	<u>W</u>	<u>S</u>	<u>T</u>	<u>Y</u>	<u>P</u>	<u>L</u>	<u>T</u>	<u>F</u>	<u>G</u>	<u>Q</u>
101	G	T	K	V	E	V	K													
100	G	T	K	V	E	V	K													

FIGURE 26A

1	A	V	Q	L	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L
1	<u>E</u>	V	Q	L	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L
21	S	C	A	A	S	G	F	T	F	S	A	S	A	M	S	W	V	R	Q	A
21	S	C	A	A	S	G	F	T	<u>V</u>	<u>T</u>	<u>S</u>	<u>Y</u>	<u>G</u>	<u>V</u>	<u>H</u>	<u>W</u>	<u>V</u>	<u>R</u>	<u>Q</u>	<u>A</u>
41	P	G	K	G	L	E	W	V	A	W	K	Y	E	N	G	N	D	K	H	Y
41	P	G	K	G	L	E	W	V	<u>G</u>		<u>V</u>	<u>I</u>	<u>W</u>	<u>S</u>	<u>G</u>	<u>G</u>	<u>S</u>	<u>T</u>	<u>D</u>	<u>Y</u>
61	A	D	S	V	N	G	R	F	T	I	S	R	N	D	S	K	N	T	L	Y
60	<u>N</u>	<u>A</u>	<u>A</u>	<u>F</u>	<u>I</u>	<u>S</u>	R	F	T	I	S	R	<u>D</u>	<u>N</u>	S	K	N	T	L	Y
81	L	Q	M	N	<u>S</u>	L	Q	A	Z	V	S	A	I	Y	Y	C	A	R	D	A
80	L	Q	M	N	<u>S</u>	L	Q	A	E	<u>D</u>	<u>T</u>	A	I	Y	Y	C	A	R	<u>A</u>	
101	G	P	Y	V	S	P	T	F	F	A	H	W	G	Q	G	T	L	V	T	V
99	<u>G</u>	<u>D</u>	<u>Y</u>		<u>N</u>	<u>Y</u>	<u>D</u>	<u>G</u>	<u>F</u>	<u>A</u>	<u>Y</u>	<u>W</u>	<u>G</u>	<u>Q</u>	<u>G</u>	<u>T</u>	<u>L</u>	<u>V</u>	<u>T</u>	<u>V</u>
121	S	S																		
118	S	S																		

FIGURE 26B

27

vc13

```
      10      20      30      40      50      60
TTCTGCTGGT ACCAGTACAT GAAACTTACA CTTGAGCTGC CACTGCAGGT GATGGTGACG

      70      80      90     100
CGGTCACCCA CTGAGGCACT GAGGCTAGAT GGAGACTGGG TCATTTG
```

vc14

```
      10      20      30      40      50      60
CATGTACTGG TACCAGCAGA AGCCAGGAAA AGCTCCGAAA CTTCTGATTT ATGACACATC

      70      80      90     100     110     120
CAACCTGGCT TCTGGAGTCC CTTCCCGCTT CAGTGGCAGT GGGTCTGGGA CCGATTACAC

     130
CTTTACAATC TCTTCA
```

vc15

```
      10      20      30      40      50      60
TGTGTCTAGA AAAGTGTACT TACGTTTTAC CTCGACCTTG GTCCCTTGAC CGAACGTGAG

      70      80      90     100     110     120
CGGGTAAGTA CTCCACTGCT GGCAGTAATA AGTGGCTATA TCTTCCGGCT GAAGTGAAGA

     130
GATTGTAAAG GTGTAAT
```

vc16

```
      10      20      30      40      50      60
CACATCTAGA CCACCATGGA TTTTCAAGTG CAGATCTTCA GCTTCCTGCT AATCAGTGCC

      70      80      90     100
TCAGTCATAC TGTCCAGAGG AGATATTCAA ATGACCCAGT CTCCATCT
```

FIGURE 27A

vc11

10 20 30 40 50 60
TAGTCTGTCG ACCCACCCT CCATATCACT CCCACCCCT CGAGTCCCTT TCCAGGAGCC
70 80 90 100 110 120
TGGCGGACCC AGTGTACACC ATAACCTGTT ACGGTGAAAC CACTGGCGGC ACAAGACAGT
130
CTCAGAGATC CTCCTGGC

vc12

10 20 30 40 50 60
TGGTGGGTCG ACAGACTATA ATGCAGCTTT CATATCCAGA TTTACCATCA GCAGAGACAA
70 80 90 100 110 120
CAGCAAGAAC AACTGTATC TCCAAATGAA TAGCCTGCAA GCCGAGGACA CAGCCATATA

TTATTG

wps54

10 20 30 40 50 60
AACTCTAGA CCACCATGGC TGTCTTGGGG CTGCTCTTCT GCCTGGTGAC ATTCCCAAGC
70 80 90 100 110 120
TGTGTCCTAT CCGCTGTCCA GCTGCTAGAG AGTGGTGGCG GTCTGGTGCA GCCAGGAGGA
130
TCTCTGAGAC

wps57

10 20 30 40 50 60
AACTCTAGA AGTTAGGACT CACCTGAAGA GACAGTGACC AGAGTCCCTT GGCCCCAGTA
70 80 90 100 110
AGCAAAACCG TCGTAATTAT AGTCCCCAGC TCTGGCACAA TAATATATGG CTGTGTCC

FIGURE 27B

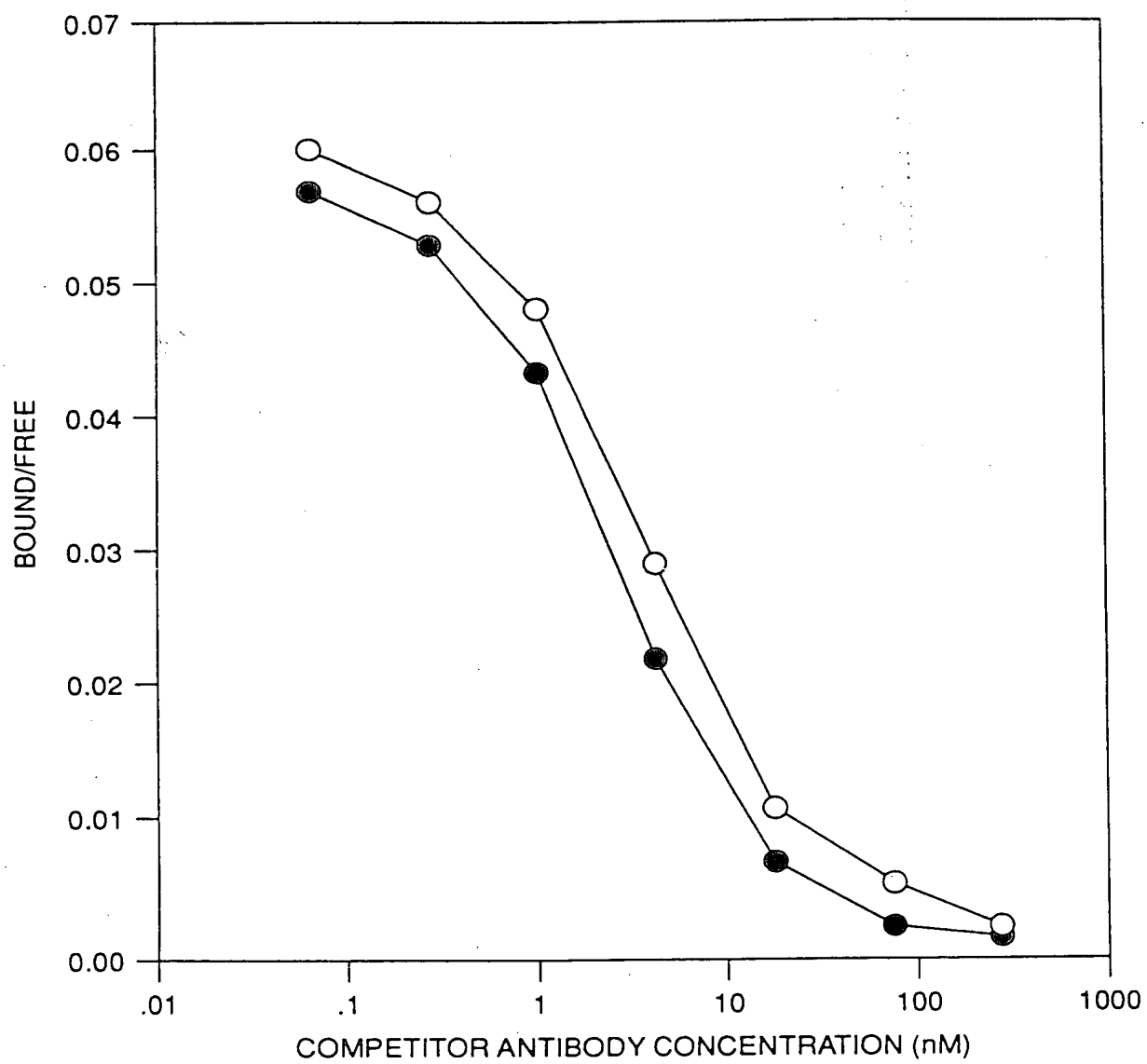


FIGURE 28

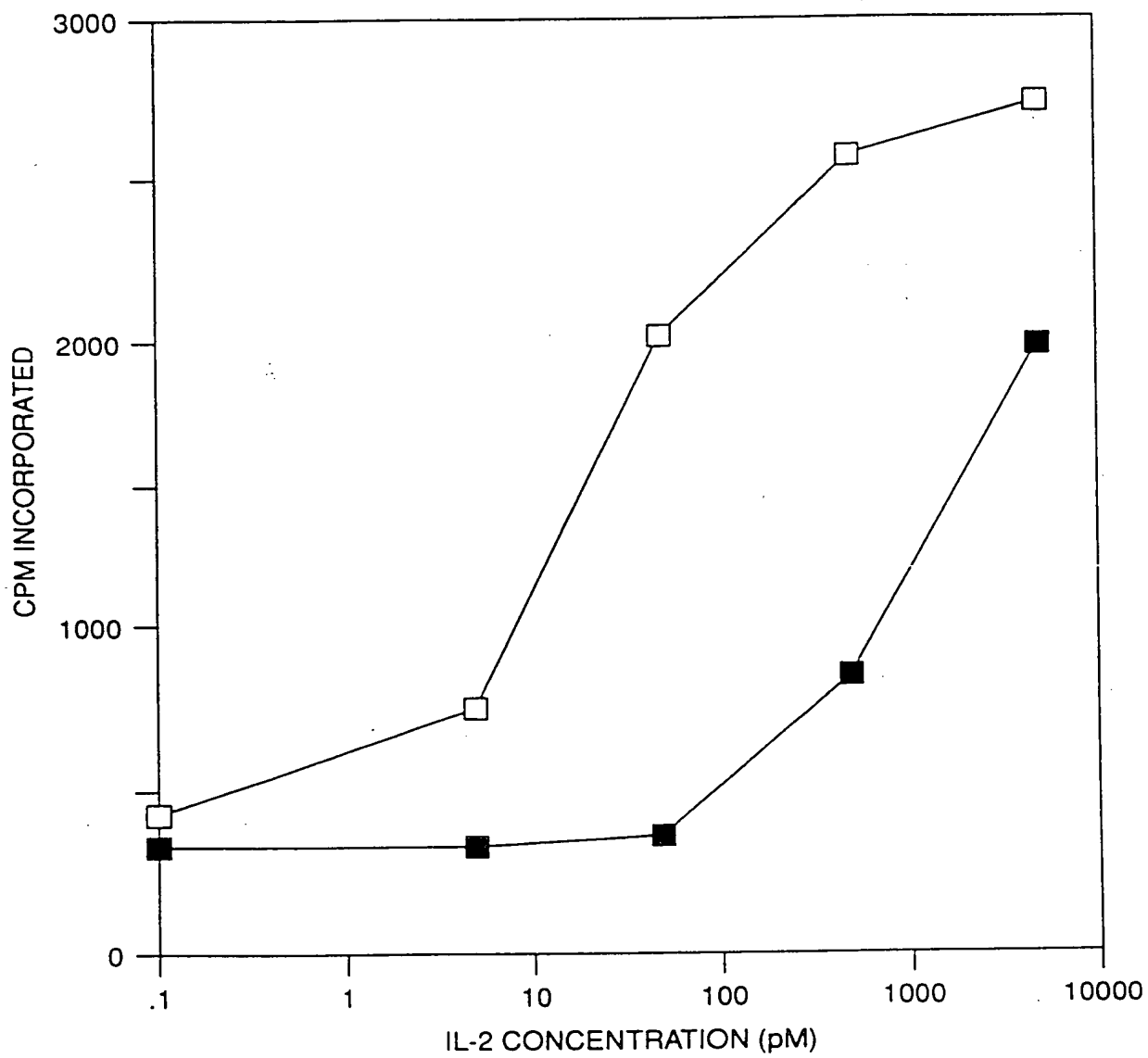


FIGURE 29

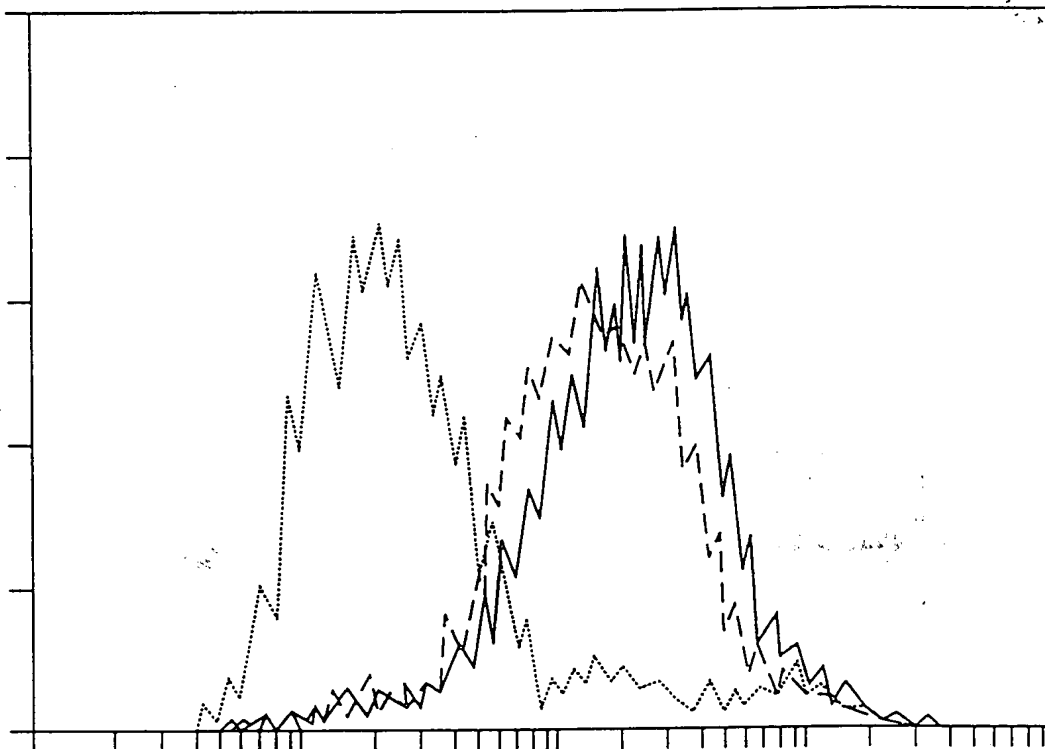


FIGURE 31A

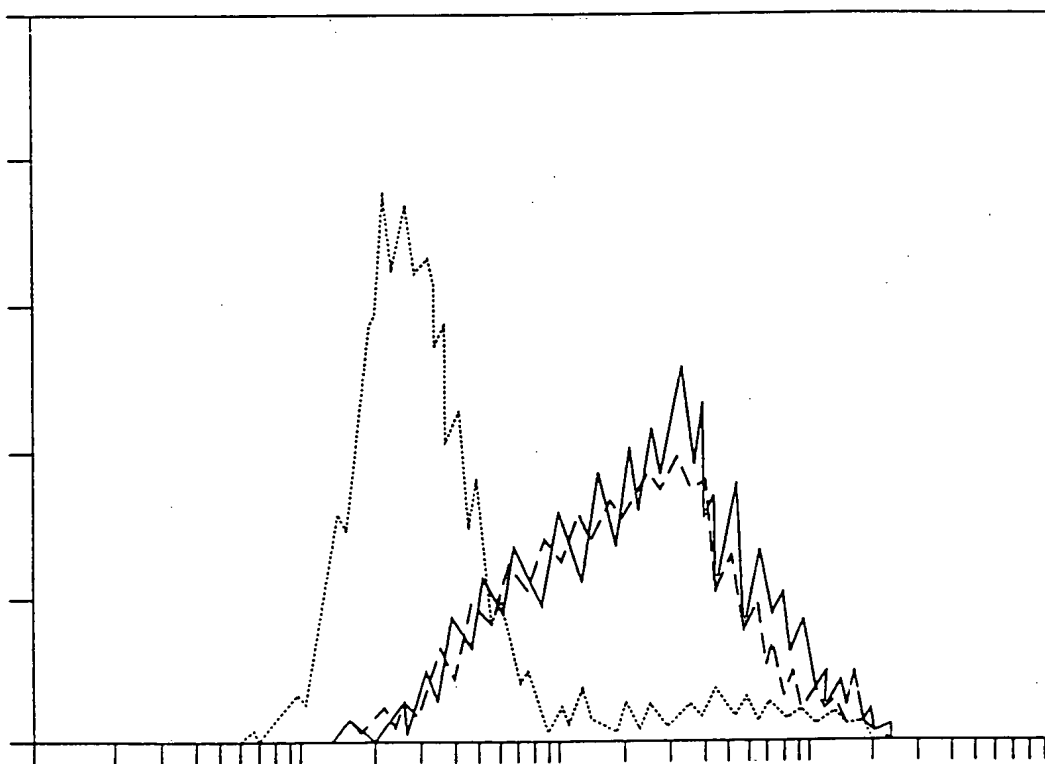


FIGURE 31B

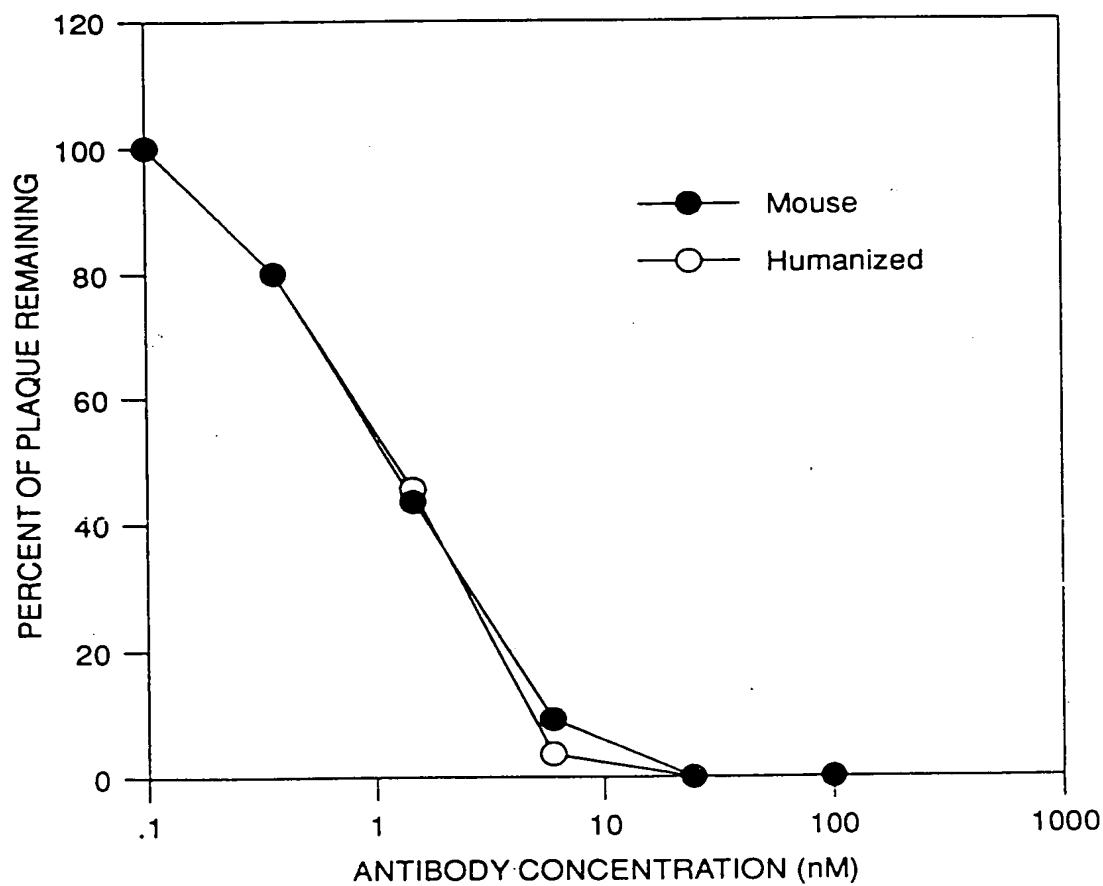


FIGURE 32A

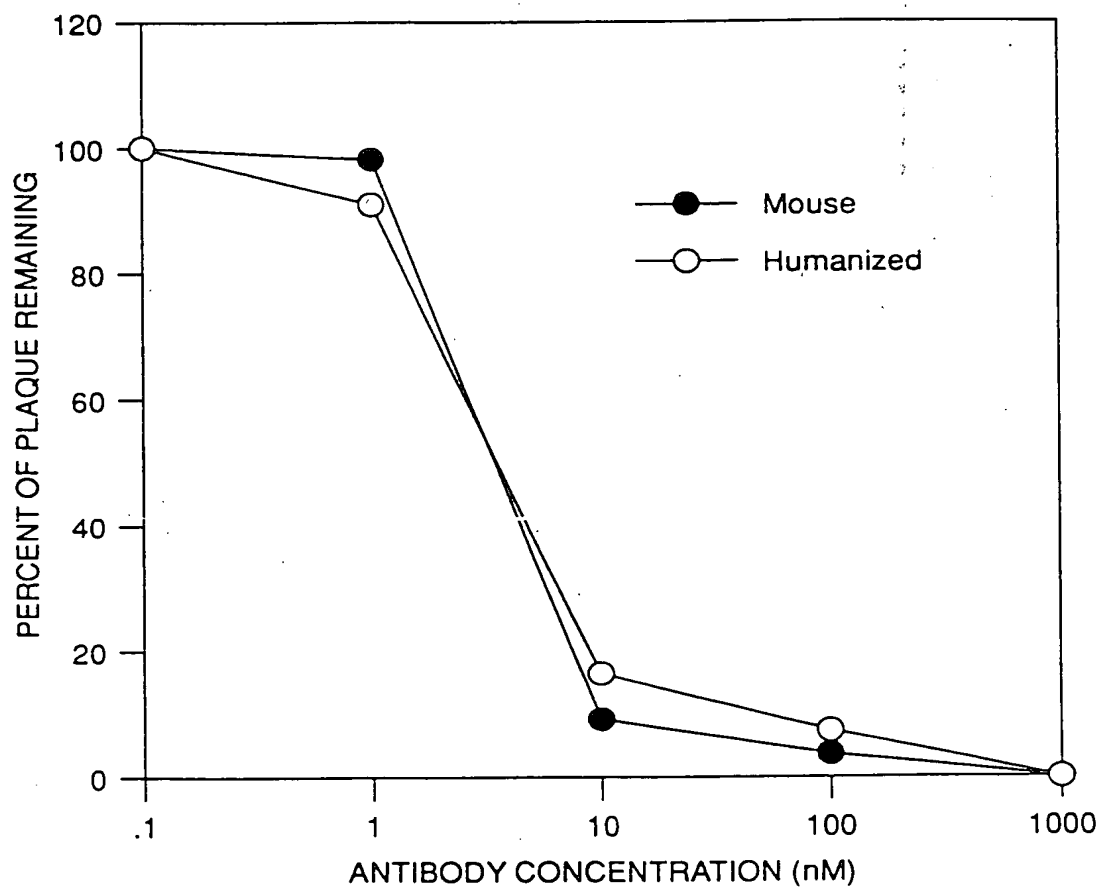


FIGURE 32B

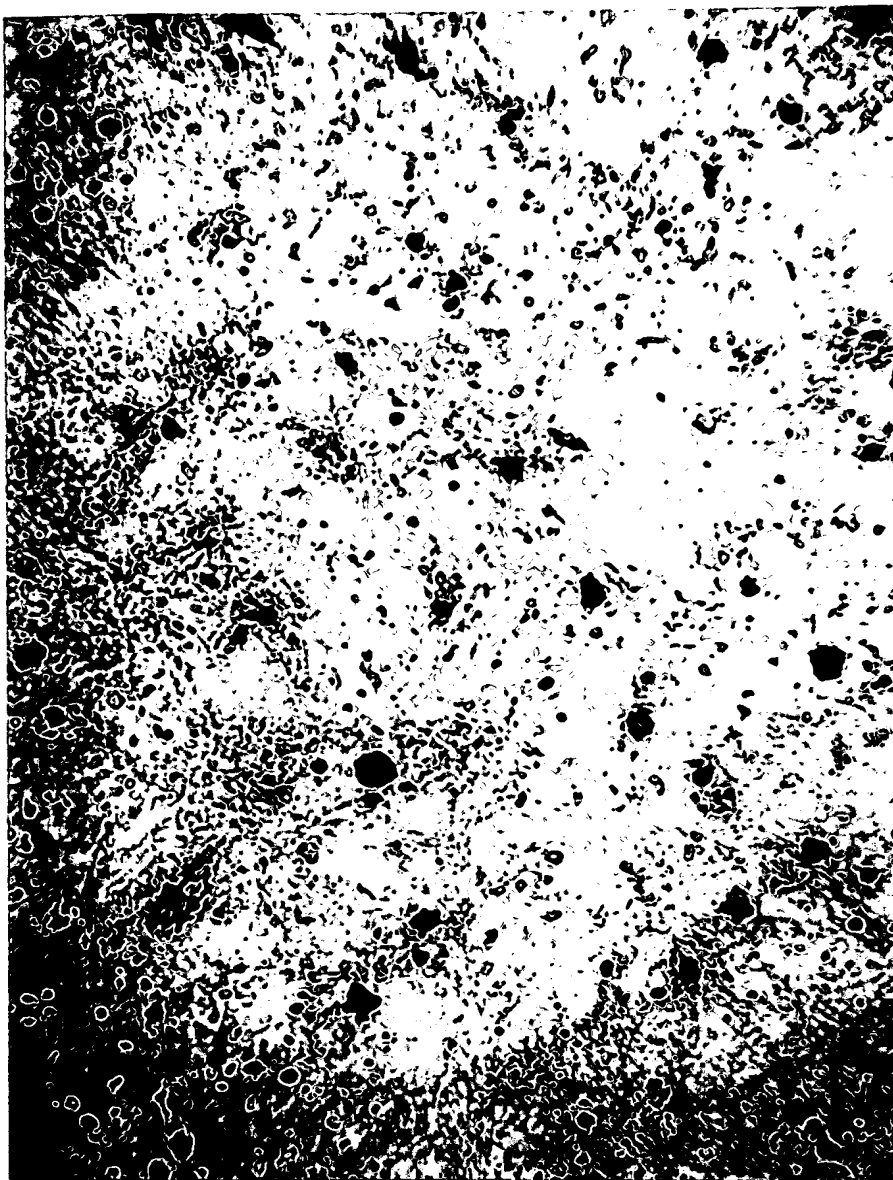


FIGURE 33A

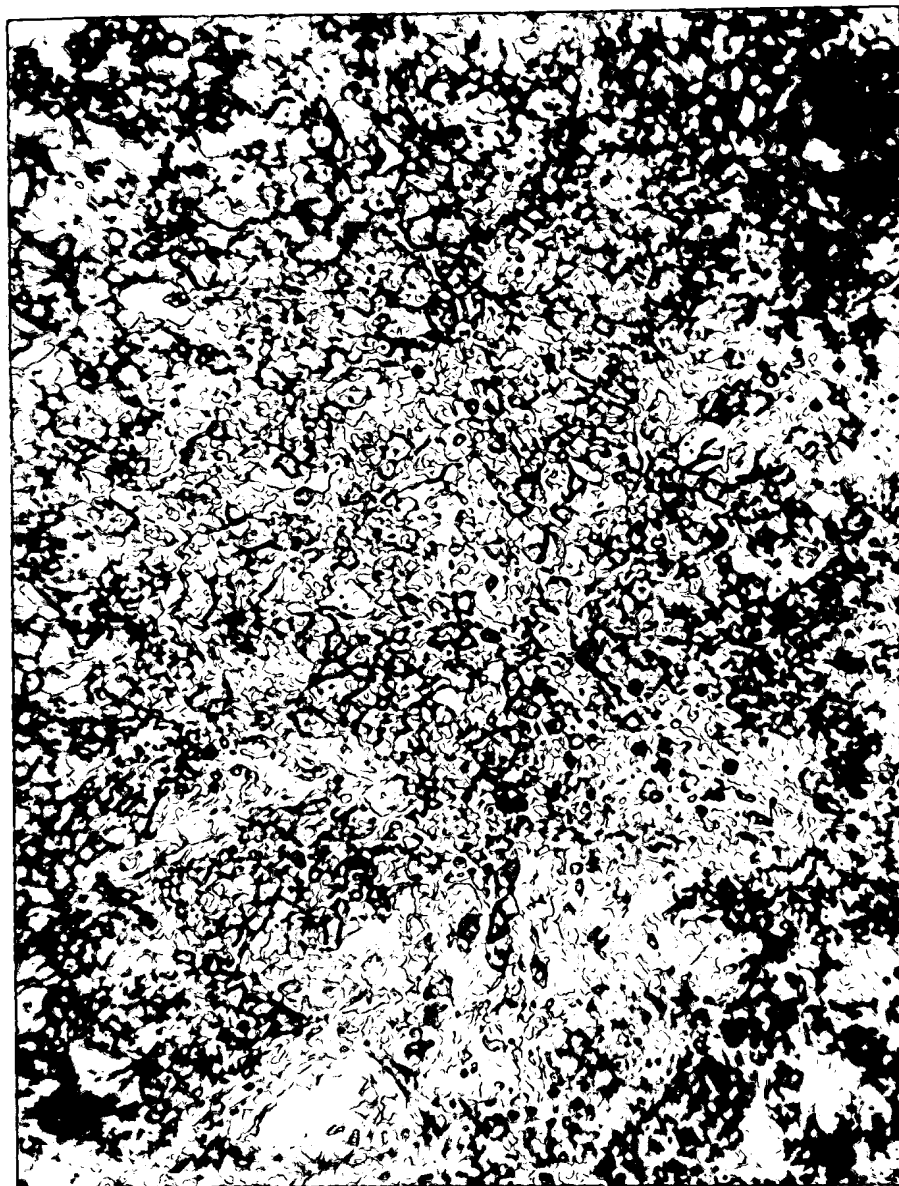


FIGURE 33B

30 60
 ATGGAGAAAGACACACTCCTGCTATGGGTCCTGCTTCTCTGGGTTCCAGGTTCCACAGGT
 M E K D T L L L W V L L L W V P G S T G
 90 120
 GACATTGTGCTGACCCAATCTCCAGCTTCTTTGGCTGTGTCTCTAGGGCAGAGGGCCACC
 D I V L T Q S P A S L A V S L G Q R A T
 150 180
 ATCTCCTGCAGAGCCAGCGAAAGTGTTGATAATTATGGCATTAGTTTTATGAACTGGTTC
 I S C R A S E S V D N Y G I S F M N W F
 210 240
 CAACAGAAACCAGGACAGCCACCCAAACTCCTCATCTATGCTGCATCCAACCAAGGATCC
 Q Q K P G Q P P K L L I Y A A S N Q G S
 270 300
 GGGGTCCTGCCAGGTTTAGTGGCAGTGGGTCTGGGACAGACTTCAGCCTCAACATCCAT
 G V P A R F S G S G S G T D F S L N I H
 330 360
 CCTATGGAGGAGGATGATACTGCAATGTATTTCTGTGTCAGCAAAGTAAGGAGGTTCCTGTTG
 P M E E D D T A M Y F C Q Q S K E V P W
 390
 ACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA
T F G G G T K L E I K

FIGURE 34A

30 60
 ATGGGATGGAGCTGGATCTTTCTCTTCCTCCTGTCAGGAAGTGCAGGCGTCCACTCTGAG
 M G W S W I F L F L L S G T A G V H S E
 90 120
 GTCCAGCTTCAGCAGTCAGGACCTGAGCTGGTGAAACCTGGGGCCTCAGTGAAGATATCC
 V Q L Q Q S G P E L V K P G A S V K I S
 150 180
 TGCAAGGCTTCTGGATACACATTCACTGACTACAACATGCACTGGGTGAAGCAGAGCCAT
 C K A S G Y T F T D Y N M H W V K Q S H
 210 240
 GGAAAGAGCCTTGAGTGGATTGGATATATTTATCCTTACAATGGTGGTACTGGCTACAAC
 G K S L E W I G Y I Y P Y N G G T G Y N
 270 300
 CAGAAGTTCAAGAGCAAGGCCACATTGACTGTAGACAATTCCTCCAGCACAGCCTACATG
Q K F K S K A T L T V D N S S S T A Y M
 330 360
 GACGTCCGCAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGGGCGCCCC
 D V R S L T S E D S A V Y Y C A R G R P
 390
 GCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA
A M D Y W G Q G T S V T V S S

FIGURE 34B

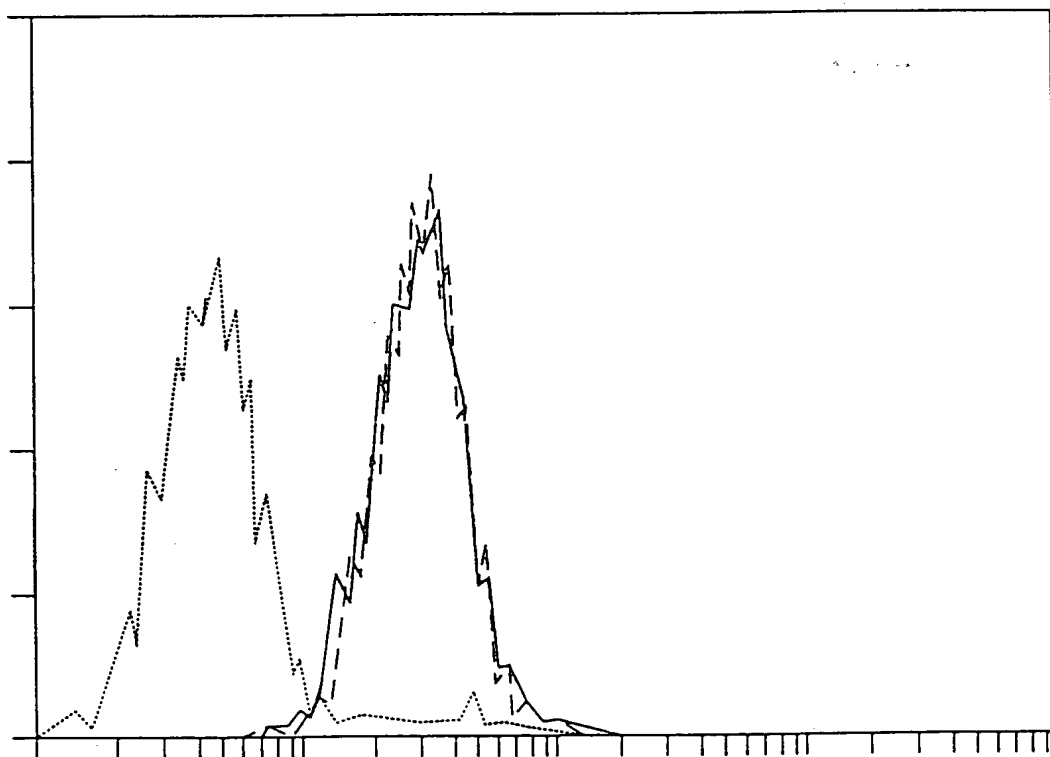


FIGURE 35

1	D	I	Q	M	T	Q	S	P	<u>S</u>	T	L	S	A	S	V	G	D	R	V	T
1	D	I	Q	M	T	Q	S	P	<u>S</u>	S	L	S	A	S	V	G	D	R	V	T
21	I	T	C	R	A	S	Q	S		I	N				T	W	L	A	W	Y
21	I	T	C	<u>R</u>	<u>A</u>	<u>S</u>	<u>E</u>	<u>S</u>	<u>V</u>	<u>D</u>	<u>N</u>	<u>Y</u>	<u>G</u>	<u>I</u>	<u>S</u>	<u>F</u>	<u>M</u>	<u>N</u>	<u>W</u>	<u>F</u>
37	Q	Q	K	P	G	G	A	P	K	L	L	M	Y	K	A	S	S	L	E	S
41	Q	Q	K	P	G	G	A	P	K	L	L	<u>I</u>	Y	<u>A</u>	<u>A</u>	<u>S</u>	<u>N</u>	<u>Q</u>	<u>G</u>	<u>S</u>
57	G	V	P	S	R	F	I	G	S	G	S	G	T	E	F	T	L	T	I	S
61	G	V	P	S	R	F	<u>S</u>	G	S	G	S	G	T	<u>D</u>	F	T	L	T	I	S
77	S	L	Q	P	D	D	F	A	T	Y	Y	C	Q	Q	Y	N	S	D	S	K
81	S	L	Q	P	D	D	F	A	T	Y	Y	C	<u>Q</u>	<u>Q</u>	<u>S</u>	<u>K</u>	<u>E</u>	<u>V</u>	<u>P</u>	<u>W</u>
97	M	F	G	Q	G	T	K	V	E	V	K									
101	<u>T</u>	F	G	Q	G	T	K	V	E	<u>I</u>	K									

FIGURE 36A

1	Q	V	Q	L	V	Q	S	G	A	E	V	K	K	P	G	S	S	V	K	V
1	Q	V	Q	L	V	Q	S	G	A	E	V	K	K	P	G	S	S	V	K	V
21	S	C	K	A	S	G	G	T	F	S	R	S	A	I	I	W	V	R	Q	A
21	S	C	K	A	S	G	<u>Y</u>	T	F	<u>T</u>	<u>D</u>	<u>Y</u>	<u>N</u>	<u>M</u>	<u>H</u>	W	V	R	Q	A
41	P	G	Q	G	L	E	W	M	G	G	I	V	P	M	F	G	P	P	N	Y
41	P	G	Q	G	L	E	W	<u>I</u>	G	<u>Y</u>	<u>I</u>	<u>Y</u>	<u>P</u>	<u>Y</u>	<u>N</u>	<u>G</u>	<u>G</u>	<u>T</u>	<u>G</u>	<u>Y</u>
61	A	Q	K	F	Q	G	R	V	T	I	T	A	D	E	S	T	N	T	A	Y
61	<u>N</u>	<u>Q</u>	<u>K</u>	<u>F</u>	<u>K</u>	<u>S</u>	<u>K</u>	<u>A</u>	T	I	T	A	D	E	S	T	N	T	A	Y
81	M	E	L	S	S	L	R	S	E	D	T	A	F	Y	F	C	A	G	G	Y
81	M	E	L	S	S	L	R	S	E	D	T	A	<u>V</u>	<u>Y</u>	<u>Y</u>	C	A	<u>R</u>	<u>G</u>	
101	G	I	Y	S	P	E	E	Y	N	G	G	L	V	T	V	S	S			
100	<u>R</u>	<u>P</u>	<u>A</u>	<u>M</u>	<u>D</u>	<u>Y</u>	<u>W</u>	<u>G</u>	<u>Q</u>	G	<u>T</u>	L	V	T	V	S	S			

FIGURE 36B

ma1

```
      10      20      30      40      50      60
TATATCTAGA CCACCATGGG ATGGAGCTGG ATCTTTCTCT TCCTCCTGTC AGGAACTGCT

      70      80      90     100     110     120
GGCGTCCACT CTCAGGTTCA GCTGGTGCAG TCTGGAGCTG AGGTGAAGAA GCCTGGGAGC

      130
TCAGTGAAGG TT
```

ma2

```
      10      20      30      40      50      60
AGCCGGTACC ACCATTGTAA GGATAAATAT ATCCAATCCA TTCCAGGCCT TGGCCAGGAG

      70      80      90     100     110     120
CCTGCCTCAC CCAGTGCATG TTGTAGTCAG TGAAGGTGTA GCCAGAAGCT TTGCAGGAAA

      130
CCTTCACTGA GCT
```

ma3

```
      10      20      30      40      50      60
TGGTGGTACC GGCTACAACC AGAAGTTCAA GAGCAAGGCC ACAATTACAG CAGACGAGAG

      70      80      90     100     110
TACTAACACA GCCTACATGG AACTCTCCAG CCTGAGGTCT GAGGACACTG CA
```

ma4

```
      10      20      30      40      50      60
TATATCTAGA GGCCATTCTT ACCTGAAGAG ACAGTGACCA GAGTCCCTTG GCCCCAGTAG

      70      80      90     100     110
TCCATAGCGG GGCGCCCTCT TGCGCAGTAA TAGACTGCAG TGTCTCAGA C
```

FIGURE 37A

ma5

10	20	30	40	50	60
TATATCTAGA	CCACCATGGA	GAAAGACACA	CTCCTGCTAT	GGGTCCTGCT	TCTCTGGGTT
70	80	90	100	110	120
CCAGGTTCCA	CAGGTGACAT	TCAGATGACC	CAGTCTCCGA	GCTCTCTGTC	CGCATCAGTA

GG

ma6

10	20	30	40	50	60
TCAGAAGCTT	AGGAGCCTTC	CCGGGTTTCT	GTTGGAACCA	G TTCATAAAG	CTAATGCCAT
70	80	90	100	110	120
AATTGTCGAC	ACTTTCGCTG	GCTCTGCATG	TGATGGTGAC	CCTGTCTCCT	ACTGATGCGG

AC

ma7

10	20	30	40	50	60
TCCTAAGCTT	CTGATTTACG	CTGCATCCAA	CCAAGGCTCC	GGGGTACCCT	CTCGCTTCTC
70	80	90	100	110	
AGGCAGTGGA	TCTGGGACAG	ACTTCACTCT	CACCATTTC	TCTCTGCAGC	CTGATGACT

ma8

10	20	30	40	50	60
TATATCTAGA	CTTTGGATTC	TACTTACGTT	TGATCTCCAC	CTTGGTCCCT	TGACCGAACG
70	80	90	100	110	
TCCACGGAAC	CTCCTTACTT	TGCTGACAGT	AATAGGTTGC	GAAGTCATCA	GGCTGCAG

FIGURE 37B

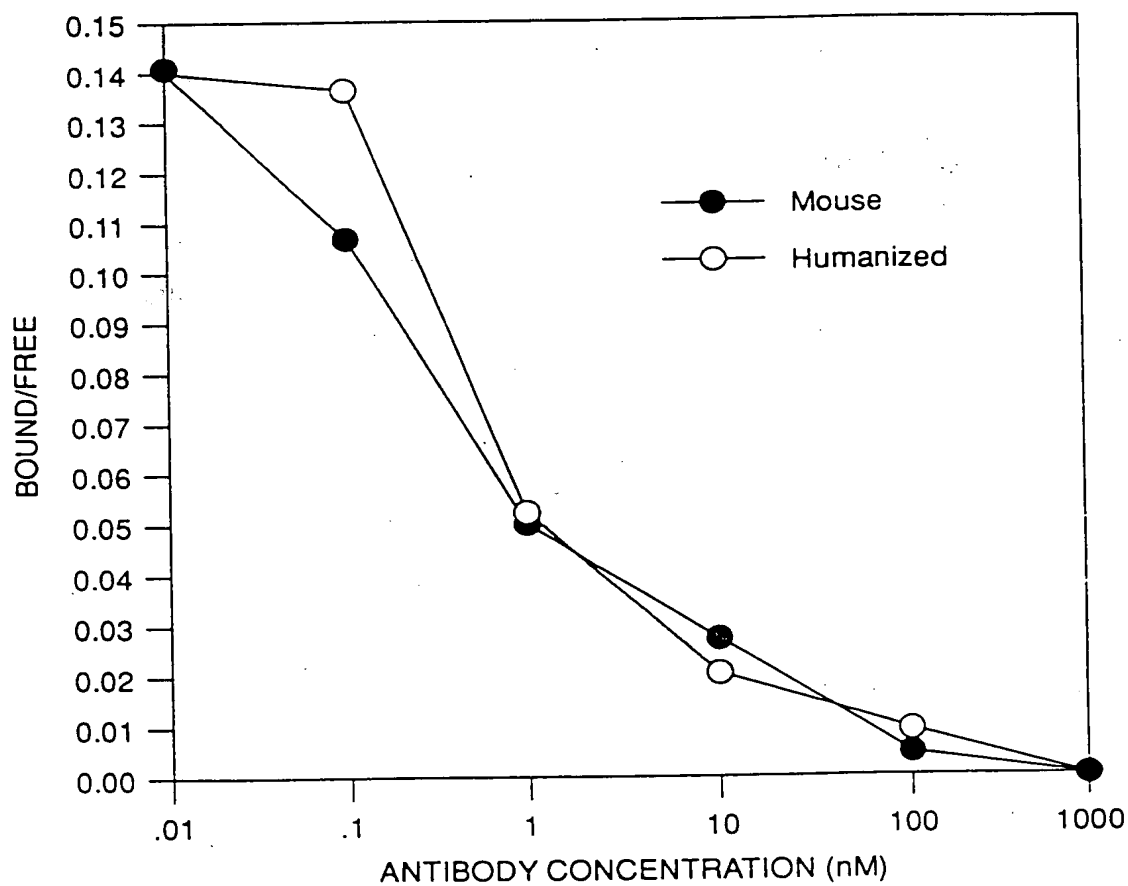


FIGURE 38

30 60
 ATGGTTTTTCACACCTCAGATACTTGGACTTATGCTTTTTTGGATTTCAGCCTCCAGAGGT
 M V F T P Q I L G L M L F W I S A S R G
 90 120
 ↓ GATATTGTGCTAACTCAGTCTCCAGCCACCCTGTCTGTGACTCCGGGAGATAGCGTCAGT
 D I V L T Q S P A T L S V T P G D S V S
 150 180
 CTTTCCTGCAGGGCCAGCCAAAGTATTAGCAACAACCTACACTGGTATCAACAAAATCA
 L S C R A S Q S I S N N L H W Y Q Q K S
 210 240
 CATGAGTCTCCAAGGCTTCTCATCAAGTATGCTTCCCAGTCCATCTCTGGGATCCCCTCC
 H E S P R L L I K Y A S Q S I S G I P S
 270 300
 AGGTTCAAGTGGCAGTGGATCAGGGACAGATTTCACTCTCAGTGTCAACGGTGTGGAGACT
 R F S G S G S G T D F T L S V N G V E T
 330 360
 GAAGATTTTGAATGTATTTCTGTCAACACACTAACAGTTGGCCTCATACGTTCCGGAGGG
 E D F G M Y F C Q Q S N S W P H T F G G
 GGGACCAAGCTGGAAATAAAA
 G T K L E I K

FIGURE 39A

30 60
 ATGGGATGGAGCTGGATCTTTCTCTTCCTCCTGTCAAGAACTGCAGGTGTCCACTCTGAG
 M G W S W I F L F L L S G T A G V H S E
 90 120
 GTCCAGCTGCAACAGTCTGGACCTGAGCTGGTGAAGCCTGGAGCTTCAATGAAGATATCC
 V Q L Q Q S G P E L V K P G A S M K I S
 150 180
 TGCAAGGCTTCTGTTTACTCATTCACTGGCTACACCATGAAGTGGGTGAAGCAGAGCCAT
 C K A S V Y S F T G Y T M N W V K Q S H
 210 240
 GGACAGAACCTTGAGTGGATTGGACTTATTAATCCTTACAATGGTGGTACTAGCTACAAC
 G Q N L E W I G L I N P Y N G G T S Y N
 270 300
 CAGAAGTTCAAGGGGAAGGCCACATTAAGTGTAGACAAGTCATCCAACACAGCCTACATG
Q K F K G K A T L T V D K S S N T A Y M
 330 360
 GAGCTCCTCAGTCTGACATCTGCGGACTCTGCAGTCTATTACTGTACAAGACGGGGGTTT
 E L L S L T S A D S A V Y Y C T R R G F
 390
 CGAGACTATTCTATGGACTACTGGGGTCAAGGAACCTCAGTCACCGTCTCCTCA
R D Y S M D Y W G Q G T S V T V S S

FIGURE 39B

1	E	I	V	L	T	Q	S	P	G	T	L	S	L	S	P	G	E	R	A	T
1	E	I	V	L	T	Q	S	P	G	T	L	S	L	S	P	G	E	R	A	T
21	L	S	C	R	A	S	Q	S	V	S	S	G	Y	L	G	W	Y	Q	Q	K
21	L	S	C	<u>R</u>	<u>A</u>	<u>S</u>	<u>Q</u>	<u>S</u>		<u>I</u>	<u>S</u>	<u>N</u>	<u>N</u>	<u>L</u>	<u>H</u>	W	Y	Q	Q	K
41	P	G	Q	A	P	R	L	L	I	Y	G	A	S	S	R	A	T	G	I	P
40	P	G	Q	A	P	R	L	L	I	<u>K</u>	<u>Y</u>	<u>A</u>	<u>S</u>	<u>Q</u>	<u>S</u>	<u>I</u>	<u>S</u>	G	I	P
61	D	R	F	S	G	S	G	S	G	T	D	F	T	L	T	I	S	R	L	E
60	D	R	F	S	G	S	G	S	G	T	D	F	T	L	T	I	S	R	L	E
81	P	E	D	F	A	V	Y	Y	C	Q	Q	Y	G	S	L	G	R	T	F	G
80	P	E	D	F	A	V	Y	Y	C	Q	<u>Q</u>	<u>S</u>	<u>N</u>	<u>S</u>	<u>W</u>	<u>P</u>	<u>H</u>	<u>T</u>	<u>F</u>	<u>G</u>
101	Q	G	T	K	V	E	I	K												
100	Q	G	T	K	V	E	I	K												

FIGURE 40A

1	Q	V	Q	L	M	Q	S	G	A	E	V	K	K	P	G	S	S	V	R	V
1	Q	V	Q	L	<u>V</u>	Q	S	G	A	E	V	K	K	P	G	S	S	V	R	V
21	S	C	K	T	S	G	G	T	F	V	D	Y	K	G	L	W	V	R	Q	A
21	S	C	K	<u>A</u>	S	G	<u>Y</u>	<u>S</u>	<u>F</u>	<u>T</u>	<u>G</u>	<u>Y</u>	<u>T</u>	<u>M</u>	<u>N</u>	W	V	R	Q	A
41	P	G	K	G	L	E	W	V	G	Q	I	P	L	R	F	N	G	E	V	K
41	P	G	K	G	L	E	W	V	G	<u>L</u>	<u>I</u>	<u>N</u>	<u>P</u>	<u>Y</u>	<u>N</u>	<u>G</u>	<u>G</u>	<u>T</u>	<u>S</u>	<u>Y</u>
61	N	P	G	S	V	V	R	V	S	V	S	L	K	P	S	F	N	Q	A	H
61	<u>N</u>	<u>Q</u>	<u>K</u>	<u>F</u>	<u>K</u>	<u>G</u>	<u>R</u>	<u>V</u>	<u>T</u>	V	S	L	K	P	S	F	N	Q	A	<u>Y</u>
81	M	E	L	S	S	L	F	S	E	D	T	A	V	Y	Y	C	A	R	E	Y
81	M	E	L	S	S	L	F	S	E	D	T	A	V	Y	Y	C	<u>T</u>	<u>R</u>	<u>R</u>	
101	G	F	D	T	S	D	Y	Y	Y	Y	Y	W	G	Q	G	T	L	V	T	V
100	<u>G</u>	<u>F</u>			<u>R</u>	<u>D</u>	<u>Y</u>	<u>S</u>	<u>M</u>	<u>D</u>	<u>Y</u>	W	G	Q	G	T	L	V	T	V
121	S	S																		
118	S	S																		

FIGURE 40B

jb16

10 20 30 40 50 60
TAGATCTAGA CCACCATGGT TTTCACACCT CAGATACTAG GACTCATGCT CTTCTGGATT
70 80 90 100 110 120
TCAGCCTCCA GAGGTGAAAT TGTGCTAACT CAGTCTCCAG GCACCCTAAG CTTATCACCG
GGAGAAAGG

jb17

10 20 30 40 50 60
TAGACAGAAT TCACGCGTAC TTGATAAGTA GACGTGGAGC TTGTCCAGGT TTTTGTGTTGTT
70 80 90 100 110 120
ACCAGTGTAG GTTGTGCTA ATACTTTGGC TGGCCCTGCA GGAAAGTGTA GCCCTTTCTC
CCGGTGAT

jb18

10 20 30 40 50 60
AAGAGAATTC ACGCGTCCCA GTCCATCTCT GGAATACCCG ATAGGTTTCAG TGGCAGTGGA
70 80 90 100 110
TCAGGGACAG ATTTCACTCT CACAATAAGT AGGCTCGAGC CGGAAGATTT TGC

jb19

10 20 30 40 50 60
TAGATCTAGA GTTGAGAAGA CTACTTACGT TTTATTTCTA CCTTGGTCCC TTGTCCGAAC
70 80 90 100 110
GTATGAGGCC AACTGTTACT CTGTTGACAA TAATACACAG CAAAATCTTC CGGCTC

FIGURE 41A

404

jb20

10 20 30 40 50 60
TATATCTAGA CCACCATGGG ATGGAGCTGG ATCTTTCTCT TCCTCCTGTC AGGAACTGCA
70 80 90 100 110 120
GGTGTCCACT CTCAAGTCCA ACTGGTACAG TCTGGAGCTG AGGTAAAAA GCCTGGAAGT
130
TCAGTAAGAG TTTC

jb21

10 20 30 40 50 60
TATATAGGTA CCACCATTGT AAGGATTAAT AAGTCCAACC CACTCAAGTC CTTTTCCAGG
70 80 90 100 110 120
TGCCTGTCTC ACCCAGTTCA TGGTATACCC AGTGAATGAG TATCCGGAAG CTTTGCAGGA
130
AACTCTTACT GAAC

jb22

10 20 30 40 50 60
TATATAGGTA CCAGCTACAA CCAGAAGTTC AAGGGCACAG TTACAGTTC TTTGAAGCCT
70 80 90 100 110
TCATTTAACC AGGCCTACAT GGAGCTCAGT AGTCTGTTTT CTGAAGACAC TGCAGT

jb23

10 20 30 40 50 60
TATATCTAGA GGCCATTCTT ACCTGAGGAG ACGGTGACTA AGGTTTCCTTG ACCCCAGTAG
70 80 90 100 110
TCCATAGAAT AGTCTCGAAA CCCCCGTCTT CTACAGTAAT AGACTGCAGT GTCTTC

FIGURE 41B

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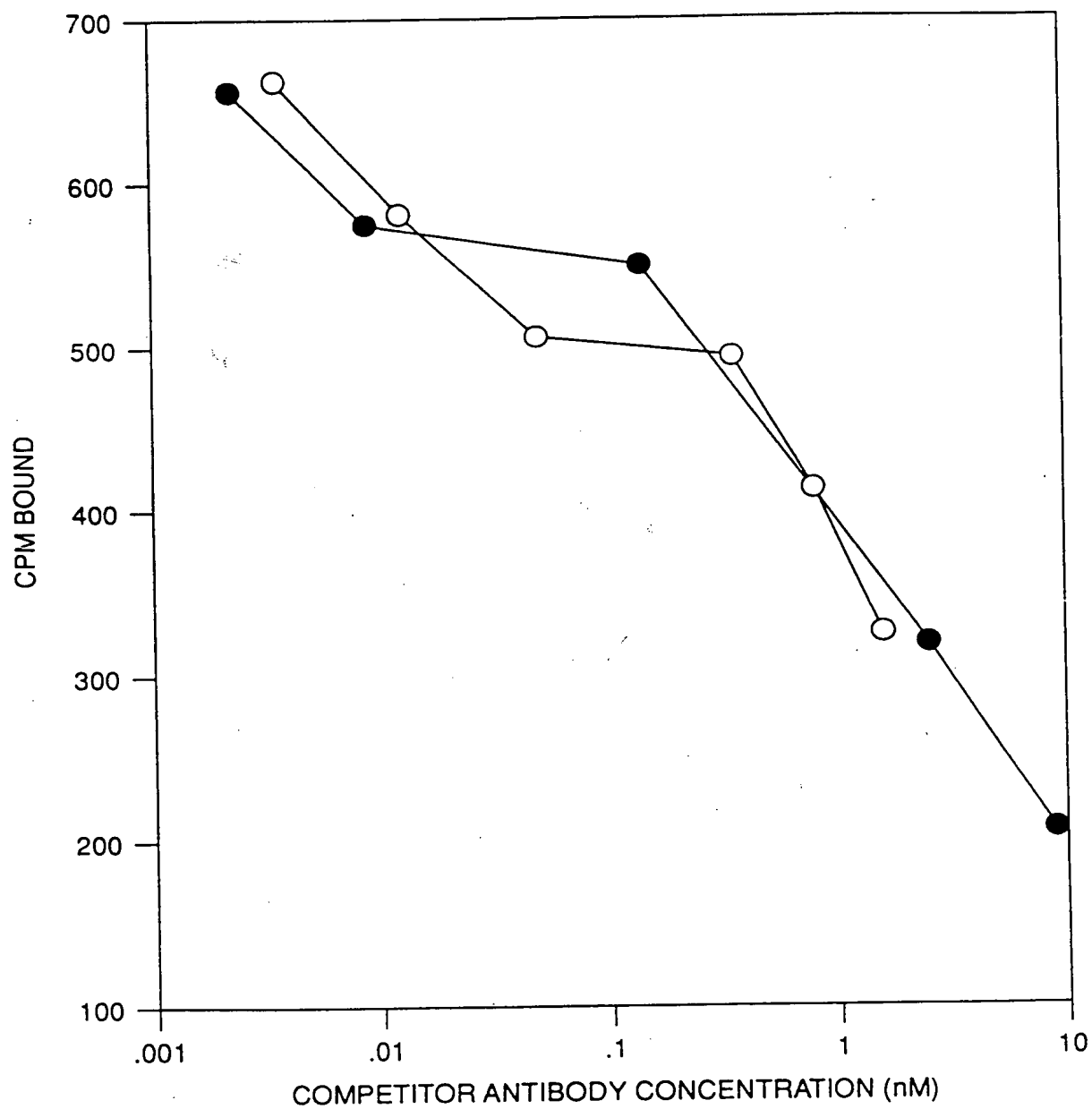


FIGURE 42

. . . 30 . . . 60
 ATGCATCAGACCAGCATGGGCATCAAGATGGAATCACAGACTCTGGTCTTCATATCCATA
 M H Q T S M G I K M E S Q T L V F I S I

. . . 90 . . . 120
 CTGCTCTGGTTATATGGTGCTCATGGGAACATTGTTATGACCCAATCTCCCAAATCCATG
 L L W L Y G A D G N I V M T Q S P K S M

. . . 150 . . . 180
 TACGTGTCAATAGGAGAGAGGGTCACCTTGAGCTGCAAGGCCAGTGAAAATGTGGATACT
 Y V S I G E R V T L S C K A S E N V D T

. . . 210 . . . 240
 TATGTATCCTGGTATCAACAGAAACCAGAGCAGTCTCCTAAACTGCTGATATATGGGGCA
Y V S W Y Q Q K P E Q S P K L L I Y G A

. . . 270 . . . 300
 TCCAACCGGTACACTGGGGTCCACGATCGCTTCACGGGCAGTGGATCTGCAACAGATTTC
S N R Y T G V H D R F T G S G S A T D F

. . . 330 . . . 360
 ACTCTGACCATCAGCAGTGTGCAGGCTGAAGACCTTGCAGATTATCACTGTGGACAGAGT
 T L T I S S V Q A E D L A D Y H C G Q S

. . . 390 . . .
 TACAACTATCCATTACGTTCTGGGCTCGGGGACAAAGTTGGAAATAAAG
Y N Y P F T F G S G T K L E I K

FIGURE 43A

30 60
 ATGACATCACTGTTCTCTCTACAGTTACCGAGCACACAGGACCTCGCCATGGGATGGAGC
 M T S L F S L Q L P S T Q D L A M G W S

90 120
 TGTATCATCCTCTTCTTGGTAGCAACAGCTACAGGTGTCCTCTCCCAGGTCCAACTGCAG
 C I I L F L V A T A T G V L S Q V Q L Q

150 180
 CAGCCTGGGGCTGACCTTGTGATGCCTGGGGCTCCAGTGAAGCTGTCCTGCTTGGCTTCT
 Q P G A D L V M P G A P V K L S C L A S

210 240
 GGCTACATCTTCACCAGCTCCTGGATAAACTGGGTGAAGCAGAGGCCTGGACGAGGCCTC
 G Y I F T S S W I N W V K Q R P G R G L

270 300
 GAGTGGATTGGAAGGATTGATCCTTCCGATGGTGAAGTTCCTACAATCAAGATTTCAAG
 E W I G R I D P S D G E V H Y N Q D F K

330 360
 GACAAGGCCACACTGACTGTAGACAAATCCTCCAGCACAGCCTACATCCAACTCAACAGC
D K A T L T V D K S S S T A Y I Q L N S

390 420
 CTGACATCTGAGGACTCTGCGGTCTATTACTGTGCTAGAGGATTTCTGCCCTGGTTTGCT
 L T S E D S A V Y Y C A R G F L P W F A

450
 GACTGGGGCCAAGGACTCTGGTCACTGTCTCTGCA
D W G Q G T L V T V S A

FIGURE 43B

1	D	I	Q	M	T	Q	S	P	S	T	L	S	A	S	V	G	D	R	V	T
1	D	I	Q	M	T	Q	S	P	S	T	L	S	A	S	V	G	D	R	V	T
21	I	T	C	R	A	S	Q	S	I	N	T	W	L	A	W	Y	Q	Q	K	P
21	I	T	C	<u>K</u>	<u>A</u>	<u>S</u>	<u>E</u>	<u>N</u>	<u>V</u>	<u>D</u>	<u>T</u>	<u>Y</u>	<u>V</u>	<u>S</u>	W	Y	Q	Q	K	P
41	G	K	A	P	K	L	L	M	Y	K	A	S	S	L	E	S	G	V	P	S
41	G	K	A	P	K	L	L	<u>I</u>	Y	<u>G</u>	<u>A</u>	<u>S</u>	<u>N</u>	<u>R</u>	<u>Y</u>	<u>T</u>	G	V	P	S
61	R	F	I	G	S	G	S	G	T	E	F	T	L	T	I	S	S	L	Q	P
61	R	F	<u>S</u>	G	S	G	S	G	T	<u>D</u>	F	T	L	T	I	S	S	L	Q	P
81	D	D	F	A	T	Y	Y	C		Q	Q	Y	N	S	D	S	K	M	F	G
81	D	D	F	A	T	Y	Y	C	<u>G</u>	<u>Q</u>	<u>S</u>	<u>Y</u>	<u>N</u>		<u>Y</u>	<u>P</u>	<u>F</u>	<u>T</u>	<u>F</u>	<u>G</u>
100	Q	G	T	K	V	E	V	K												
100	Q	G	T	K	V	E	V	K												

FIGURE 44A

1	Q	V	Q	L	V	Q	S	G	A	E	V	K	K	P	G	S	S	V	K	V
1	Q	V	Q	L	V	Q	S	G	A	E	V	K	K	P	G	S	S	V	K	V
21	S	C	K	A	S	G	<u>G</u>	<u>T</u>	<u>F</u>	<u>S</u>	<u>R</u>	<u>S</u>	<u>A</u>	<u>I</u>	<u>I</u>	<u>W</u>	<u>V</u>	<u>R</u>	<u>Q</u>	<u>A</u>
21	S	C	K	A	S	G	<u>Y</u>	<u>I</u>	<u>F</u>	<u>T</u>	<u>S</u>	<u>S</u>	<u>W</u>	<u>I</u>	<u>N</u>	<u>W</u>	<u>V</u>	<u>R</u>	<u>Q</u>	<u>A</u>
41	P	G	Q	G	L	E	W	M	G	G	I	V	P	M	F	G	P	P	N	Y
41	P	G	Q	G	L	E	W	M	G	<u>R</u>	<u>I</u>	<u>D</u>	<u>P</u>	<u>S</u>	<u>D</u>	<u>G</u>	<u>E</u>	<u>V</u>	<u>H</u>	<u>Y</u>
61	A	Q	K	F	Q	G	R	V	T	I	T	A	D	E	S	T	N	T	A	Y
61	<u>N</u>	<u>Q</u>	<u>D</u>	<u>F</u>	<u>K</u>	<u>D</u>	<u>R</u>	<u>V</u>	<u>T</u>	<u>I</u>	<u>T</u>	<u>A</u>	<u>D</u>	<u>E</u>	<u>S</u>	<u>T</u>	<u>N</u>	<u>T</u>	<u>A</u>	<u>Y</u>
81	M	E	L	S	S	L	R	S	E	D	T	A	F	Y	F	C	A	G	G	Y
81	M	E	L	S	S	L	R	S	E	D	T	A	<u>V</u>	<u>Y</u>	<u>Y</u>	C	A	<u>R</u>	<u>G</u>	<u>F</u>
101	G	I	Y	S	P	E	E	Y	N	G	G	L	V	T	V	S	S			
101	<u>L</u>	<u>P</u>	<u>W</u>	<u>F</u>	<u>A</u>	<u>D</u>	<u>W</u>	<u>G</u>	<u>Q</u>	<u>G</u>	<u>T</u>	<u>L</u>	<u>V</u>	<u>T</u>	<u>V</u>	<u>S</u>	<u>S</u>			

FIGURE 44B

rh10

10 20 30 40 50 60
TTTTTCTAG ACCACCATGG AGACCGATAC CCTCCTGCTA TGGGTCCTCC TGCTATGGGT
70 80 90 100 110
CCCAGGATCA ACCGGAGATA TTCAGATGAC CCAGTCTCCG TCGACCCTCT CTGCT

rh11

10 20 30 40 50 60
TTTTAAGCTT GGGAGCTTTG CCTGGCTTCT GCTGATACCA GGATACATAA GTATCCACAT
70 80 90 100 110 120
TTTCACTGGC CTTGCAGGTT ATGGTGACCC TATCCCCGAC GCTAGCAGAG AGGTTCCACG

rh12

10 20 30 40 50 60
TTTTAAGCTT CTAATTTATG GGGCATCCAA CCGGTACACT GGGGTACCTT CACGCTTCAG
70 80 90 100 110
TGGCAGTGGA TCTGGGACCG ATTTACCCCT CACAATCAGC TCTCTGCAGC CAGATGAT

rh13

10 20 30 40 50 60
TTTTTCTAG AGCAAAAGTC TACTTACGTT TGACCTCCAC CTTGGTCCCC TGACCGAACG
70 80 90 100 110 120
TGAATGGATA GTTGTA ACTC TGTCCGCAGT AATAAGTGGC GAAATCATCT GGCTCCAGAG

FIGURE 45A

rh20

10 20 30 40 50 60
TTTTTCTAGA CCACCATGGG ATGGAGCTGG ATCTTTCTCT TCCTCCTGTC AGGTACCGCG
70 80 90 100 110
GGCGTGCACT CTCAGGTCCA GCTTGTCCAG TCTGGGGCTG AAGTCAAGAA ACCT

rh21

10 20 30 40 50 60
TTTTGAATTC TCGAGACCCCT GTCCAGGGGC CTGCCTTACC CAGTTTATCC AGGAGCTAGT
70 80 90 100 110 120
AAAGATGTAG CCAGAAGCTT TGCAGGAGAC CTTACGGAG CTCCCAGGTT TCTTGACTTC

A

rh22

10 20 30 40 50 60
TTTTGAATTC TCGAGTGGAT GGAAGGATT GATCCTTCCG ATGGTGAAGT TCACTACAAT
70 80 90 100 110 120
CAAGATTTC AAGACCGTGT TACAATTACA GCAGACGAAT CCACCAATAC AGCCTACATG
130
GAACTGAGCA GCCTGAG

rh23

10 20 30 40 50 60
TTTTTCTAGA GGTTTTAAGG ACTCACCTGA GGAGACTGTG ACCAGGGTTC CTTGGCCCCA
70 80 90 100 110 120
GTCAGCAAAC CAGGGCAGAA ATCCTCTTGC ACAGTAATAG ACTGCAGTGT CCTCTGATCT
130
CAGGCTGCTC AGTT

FIGURE 45B

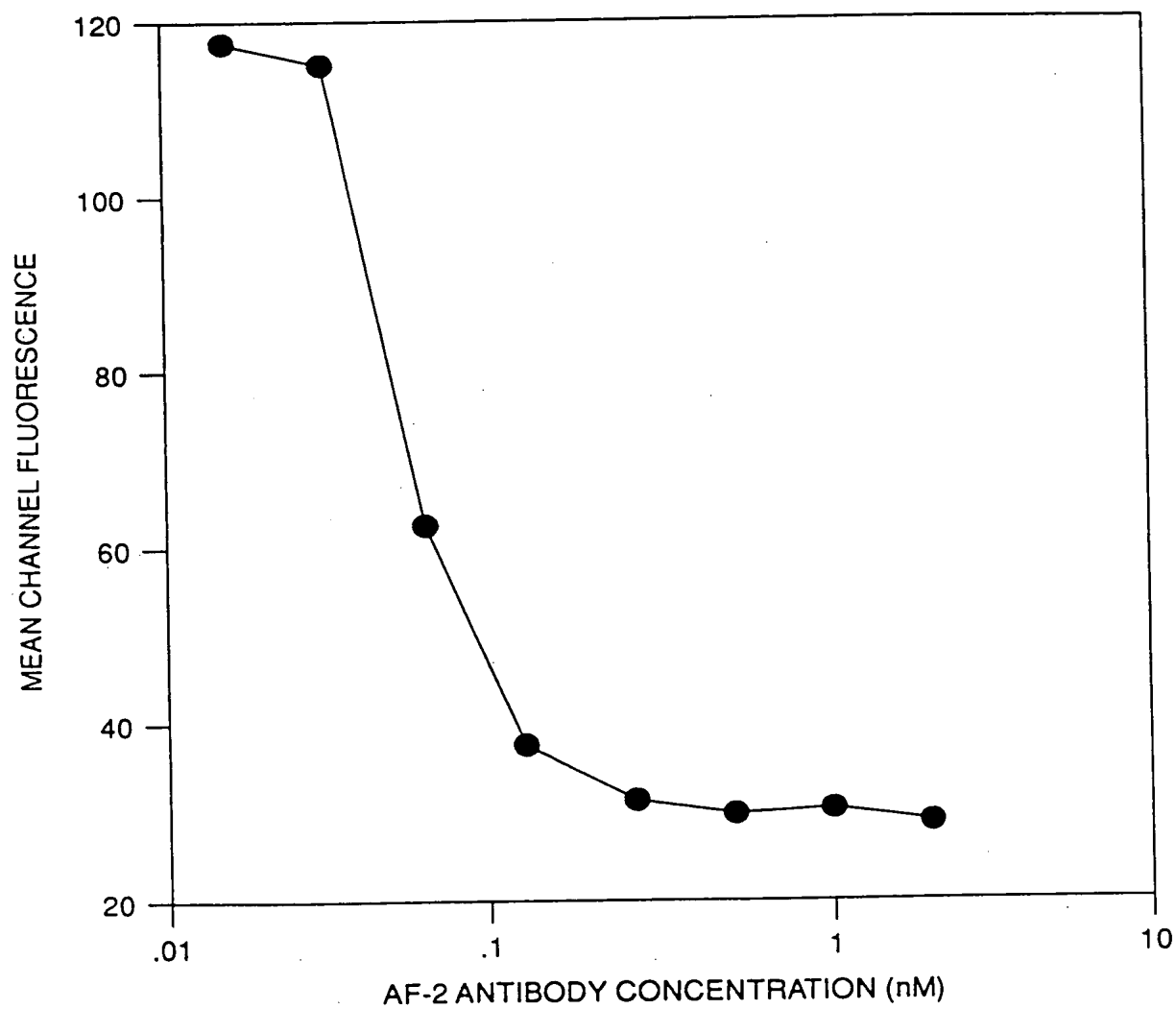


FIGURE 46